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Erie, Pa. Water bureau.

35th

ANNUAL REPORT

OF THE

COMMISSIONERS OF

WATER WORKS,

IN THE CITY OF ERIE,

ERIE, PENN'A,

TO THE

COUNCILS,

FOR THE

YEAR ENDING DECEMBER 31, 1901.

ERIE, PA.:
ASHBY PRINTING COMPANY.
1902.

Erie, Pa. Water bureau.

35th

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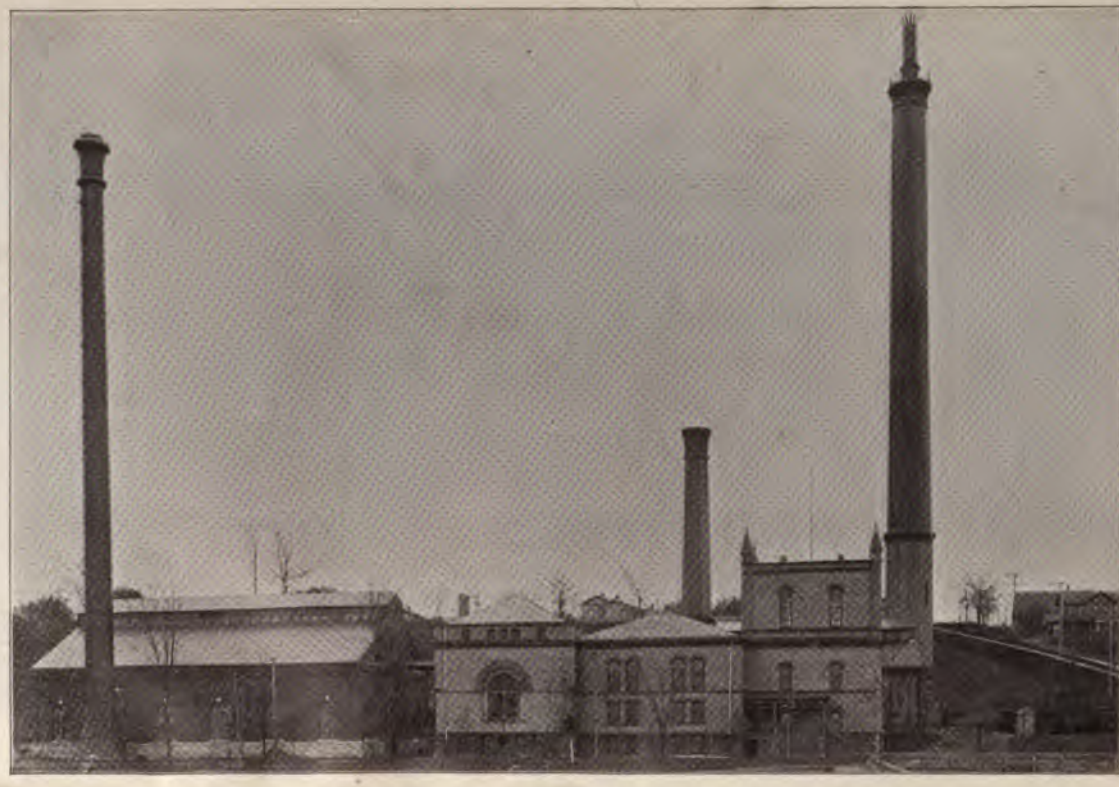


PUMPING STATION AS SEEN FROM THE BAY.

COMMISSIONERS OF WATER WORKS,

IN THE CITY OF ERIE,

ERIE, PENN'A.

CLARK OLDS.

G. F. BREVILLIER.

WILLIS B. DURLIN.

OFFICERS.

CLARK OLDS, A. M. A. S. C. E.
President.

WILLIAM HIMROD, M. A. W. W. A.
Secretary and Treasurer.

GEO. C. GENSHEIMER,
Assistant Secretary.

F. A. ROTH,
Chief Engineer at Pumping Station.

R. T. WALKER,
Superintendent of Street Work.

OFFICE, CITY HALL.

OFFICE HOURS. From 8:00 a. m. to 5 p. m.; on Mondays to 9:00 p. m.

REGULAR MEETINGS OF THE COMMISSIONERS. Every Saturday at 3:00 p. m., and the first of each month at 11:00 a. m., except when it occurs on Sunday, then they meet the following day. Special meetings when necessary.

336916

1904

ANNUAL REPORT.

To the Councils of the City of Erie, Pa.:

GENTLEMEN:

We herewith submit the thirty-fifth annual report of this department, for the year ending December 31, 1901.

RECEIPTS.

Balance in City Treasury Dec. 31, 1900..		$ 380 14
From Water Rents:		
Assessments.....	$ 103,338 32	
Meters	29,759 44	
Building Permits.....	649 18	
Special Permits.....	132 93	
		133,879 87
From other sources (Plumbing).....		1,509 70
Total.....		$ 135,769 71

DISBURSEMENTS.

Construction.....	$ 54,404 24	
Maintenance	24,580 91	
Operating	28,925 27	
Accounting.....	9,184 53	
Legal.....	115 65	
		117,210 60
Sinking Fund Comm's City of Erie.....		2,000 00
Balance in City Treasury Dec. 31, 1901...		16,559 11
Total.....		$ 135,769 71

During the past year we installed at the pumping station a machine shop, consisting of a forge, lathe, drill press, grinder and electric motor, thoroughly rebuilt the Gaskill pumping engine, and laid nearly three and one-half miles of new mains. The total length of water mains is now 110¾ miles.

The increase in the receipts of the department, for the year 1901, amounted to the sum of $11,681.29.

The amount of water pumped was 3,190,024,916 gallons, an increase over the previous year of 65,584,272 gallons.

The daily average pumpage was 8,739,794 gallons. The daily average per capita pumpage was 165.7 gallons, based upon the census report for 1900, which gives the city a population of 52,733.

We believe a large amount of the water is unnecessarily wasted, which waste could be materially curtailed if the rules of the department were amended so as to permit the installation of meters for domestic use of water.

The high service system, embracing all that portion of the city south of Nineteenth street, has been maintained throughout the year in a satisfactory manner, with an average daily lift of water of 280.88 feet.

The average daily lift of water for the low service system was 236.37 feet.

The accounts of the water department have not been audited for the period of five years, and we reiterate our request that this important duty be performed annually.

We have endeavored to determine how far the electrolytic conditions, which exist here, are threatening the life of the water mains of the city.

Mr. A. A. Knudson of New York, an expert on electrolysis, made a voltmeter survey of the water mains in October, and ascertained that the mains in certain locations have already suffered material damage from electrical currents, that the electrical currents which are producing the disintegration of the iron pipe come from the electric cars, and are sufficient in volume to destroy the entire system of water mains.

The greatest damage seems to have resulted from the improper, careless and negligent manner in which the rails of the Motor Companies are bonded, permitting the return currents to leave the rails and take the water mains back to the power houses. All of the electric car tracks in the city, with the exception of State and West Fourth streets, are electrically in poor condition.

All the large distributing mains from the reservoir are located in West Twenty-sixth street between Chestnut and Cherry streets and are connected with the pumping station through said streets.

The bonds to the rails in Twenty-sixth street are broken, which condition produces an open circuit in the trolley tracks and forms a dam, which prevents the proper return of the current through the rails to the power house, consequently the current

leaves the rails at the reservoir and returns to the power house through the large mains in Chestnut street and through the pumping station.

At the corner of Twenty-sixth and Chestnut streets a difference of potential was found between the rails and the mains amounting to from 80 to 90 volts, and a current of from 15 to 25 amperes was found passing through the mains in Chestnut street to the pumping station. The action of the fraction of an ampere flowing through a cast iron main will in time do great damage to the joints of the pipe.

At the Peach street crossing of the Lake Shore and Michigan Southern Railway the bonds in the rails are broken, and the return current passes eastwardly through the rails of the railroad to the iron bridge over State street and through the foundation of the bridge to the water mains.

On East Twenty-sixth street the voltmeter readings gave a difference of potential between the rails and the mains, ranging from 100 to 147 volts. Similar conditions were found to exist at nearly all of the railway crossings, also in the East Sixth street, East Eleventh street and West Twelfth street lines.

We, therefore, recommend that an ordinance be passed by your Honorable bodies prescribing the manner in which all electric street car lines shall be constructed in the future, and that regular inspections of the electric car lines shall be made by the City Electrician, who shall have power to compel the street car companies to make such repairs to the lines as shall be necessary to prevent the escape of the return current, also that the electric car companies be compelled to place overhead return current wires from the power houses to points in their respective lines where the bonds in the rails are habitually broken.

We again call attention to the necessity for the construction of an intercepting sewer along the city front, a sewer in the valley of Millcreek, and a sewage disposal plant.

For the period of twenty one years this department has annually called the attention of your Honorable bodies to the gradual pollution of the water of the bay by the city sewage. We believe it to be the duty of the city to take care of its sewage, and if this important matter is longer neglected it may seriously affect the health of the city.

Respectfully submitted,

CLARK OLDS,
G. F. BREVILLIER,
WILLIS B. DURLIN,
Commissioners.

Commissioners of Water Works, in the City of Erie, from Organization to December 31, 1901.

The Commissioners of Water Works, in the City of Erie, are appointed by the Court of Common Pleas of Erie County, Penn'a, for a term of three years, one member being named annually. in May.

1867	*W. L. Scott,	*Henry Rawle,	Wm. W. Reed.
1868	*John C. Selden,	*Henry Rawle,	Wm. W. Reed.
1869	*John C. Selden,	*Henry Rawle,	Wm. W. Reed.
1870	*John C. Selden,	*Henry Rawle,	Wm. W. Reed.
1871	*†John C. Selden,	*Henry Rawle,	Wm. W. Reed.
1872	Matthew R. Barr,	John Gensheimer,	Wm. W. Reed.
1873	Matthew R. Barr,	John Gensheimer,	Wm. W. Reed.
1874	Matthew R. Barr,	John Gensheimer,	Wm. W. Reed.
1875	Matthew R. Barr,	John Gensheimer,	Wm. W. Reed.
1876	Matthew R. Barr,	John Gensheimer,	Wm. W. Reed.
1877	Michael Liebel,	John Gensheimer,	Wm. W. Reed.
1878	Michael Liebel,	*J. M. Bryant,	Wm. W. Reed.
1879	Michael Liebel,	*J. M. Bryant,	*G. W. F. Sherwin.
1880	Michael Liebel,	*J. M. Bryant,	*G. W. F. Sherwin.
1881	Michael Liebel,	Benjamin Whitman,	*G. W. F. Sherwin.
1882	Michael Liebel,	Benjamin Whitman,	*G. W. F. Sherwin.
1883	Michael Liebel,	Benjamin Whitman,	*G. W. F. Sherwin.
1884	Michael Liebel,	Benjamin Whitman,	*G. W. F. Sherwin.
1885	Michael Liebel,	Benjamin Whitman,	Geo. W. Starr.
1886	C. Kessler,	Benjamin Whitman,	Geo. W. Starr.
1887	C. Kessler,	C. J. Brown,	Geo. W. Starr.
1888	C. Kessler,	C. J. Brown,	Geo. W. Starr.
1889	C. Kessler,	C. J. Brown,	Geo. W. Starr.
1890	C. Kessler,	C. J. Brown,	Geo. W. Starr.
1891	C. Kessler,	C. J. Brown,	Wm. Hardwick.
1892	T. W. Shacklett,	C. J. Brown,	Wm. Hardwick.
1893	T. W. Shacklett,	C. J. Brown,	Wm. Hardwick.
1894	T. W. Shacklett,	C. J. Brown,	Wm. Hardwick.
1895	T. W. Shacklett,	‡C. J. Brown,	Wm. Hardwick.
1896	T. W. Shacklett,	Clark Olds,	Wm. Hardwick.
1897	T. W. Shacklett,	Clark Olds,	Wm. Hardwick.
1898	T. W. Shacklett,	Clark Olds,	Wm. Hardwick.
1899	T. W. Shacklett,	Clark Olds,	Wm. Hardwick.
1900	T. W. Shacklett,	Clark Olds,	G. F. Brevillier.
1901	Willis B. Durlin,	Clark Olds,	G. F. Brevillier.

*Dead.

†Mr. Selden resigned before the expiration of his second term; Mr. Barr was substituted by the other Commissioners, and afterwards appointed by the Court.

‡C. J. Brown resigned December 28, 1895, having been elected Treasurer of Erie County, Penna. Clark Olds was chosen by the other Commissioners for the unexpired term, on recommendation of the Court, January 2, 1896.

Officers of Water Works, from Organization to December 31, 1901.

	President.	Secretary and Treasurer.	Assistant Secretary.
1867	Wm. W. Reed,	*Wm. Brewster,	.....
1868	Wm. W. Reed,	*Wm. Brewster,	.....
1869	Wm. W. Reed,	*J. C. Perkins,	.....
1870	Wm. W. Reed,	*J. C. Perkins,	.....
1871	Wm. W. Reed,	*J. C. Perkins,	.....
1872	Wm. W. Reed,	*J. C. Perkins,	.....
1873	Wm. W. Reed,	*J. C. Perkins,	.....
1874	Wm. W. Reed,	*J. C. Perkins,	.....
1875	Wm. W. Reed,	*J. C. Perkins,	.....
1876	Wm. W. Reed,	*J. C. Perkins,	.....
1877	Wm. W. Reed,	*J. C. Perkins,	.....
1878	Wm. W. Reed,	*J. C. Perkins,	.....
1879	Michael Liebel,	B. F. Sloan,	.....
1880	Michael Liebel,	B. F. Sloan,	.....
1881	*G. W. F. Sherwin,	B. F. Sloan,	.....
1882	*G. W. F. Sherwin,	B. F. Sloan,	.....
1883	*G. W. F. Sherwin,	B. F. Sloan,	.....
1884	Benjamin Whitman,	B. F. Sloan,	Geo. C. Gensheimer.
1885	Benjamin Whitman,	B. F. Sloan,	Geo. C. Gensheimer.
1886	Benjamin Whitman,	B. F. Sloan,	Geo. C. Gensheimer.
1887	Geo. W. Starr,	B. F. Sloan,	Geo. C. Gensheimer.
1888	Geo. W. Starr,	B. F. Sloan,	Geo. C. Gensheimer.
1889	Geo. W. Starr,	B. F. Sloan,	Geo. C. Gensheimer.
1890	Geo. W. Starr,	B. F. Sloan,	Geo. C. Gensheimer.
1891	C. J. Brown,	Wm. Himrod,	Geo. C. Gensheimer.
1892	C. J. Brown,	Wm. Himrod,	Geo. C. Gensheimer.
1893	C. J. Brown,	Wm. Himrod,	Geo. C. Gensheimer.
1894	Wm. Hardwick,	Wm. Himrod,	Geo. C. Gensheimer.
1895	Wm. Hardwick,	Wm. Himrod,	Geo. C. Gensheimer.
1896	T. W. Shacklett,	Wm. Himrod,	Geo. C. Gensheimer.
1897	T. W. Shacklett,	Wm. Himrod,	Geo. C. Gensheimer.
1898	T. W. Shacklett,	Wm. Himrod,	Geo. C. Gensheimer.
1899	Clark Olds,	Wm. Himrod,	Geo. C. Gensheimer.
1900	Clark Olds,	Wm. Himrod,	Geo. C. Gensheimer.
1901	Clark Olds,	Wm. Himrod,	Geo. C. Gensheimer.

*Dead.

NOTE.—Mr. Brewster was elected June 14, 1867; resigned October 26, 1868, to take effect November 2, 1868; served 1 year, 4 months and 18 days. Mr. Perkins was elected October 26, 1868, to take effect November 2, 1868; resigned March 30, 1878; same accepted December 21, 1878, to take effect January 1, 1879; served 10 years, 1 month and 29 days. Mr. Sloan was elected December 21, 1878, to take effect January 1, 1879; continued in office to June 1, 1891; served 12 years and 5 months. Mr. Himrod was appointed Secretary May 23, 1891, to take effect June 1, 1891. Mr. Gensheimer was appointed Assistant Secretary January 26, 1884.

Monthly Receipts from all Sources during the Year Ending December 31, 1901.

Month.	Assessment	Meter.	Special.	Plumbing.	Building.	Total.
January	$23,141 29	$ 6,465 63	$ 12 00	$ 1 00	$ 18 83	$ 29,638 75
February	2,062 52	11 81	3 50	374 76	8 18	2,460 77
March	125 34	15 56	.....	33 36	52 82	227 08
April	22,498 72	7,267 42	11 75	30 70	59 11	29,867 70
May	2,673 56	.....	20 50	1 60	52 20	2,747 86
June	466 62	43 88	22 75	656 64	87 44	1,277 33
July	23,884 67	7,442 29	18 95	66 58	43 99	31,456 48
August	1,985 56	22 32	21 12	2 00	30 11	2,061 11
September	441 02	137 37	1 50	5 00	134 15	719 04
October	23,698 62	8,305 98	4 00	13 50	101 74	32,123 84
November	2,226 46	21 17	3 00	214 52	39 75	2,504 90
December	133 94	26 01	13 86	110 04	20 86	304 71
	$103,338 32	$29,759 44	$132 93	$1,509 70	$ 649 18	$135,389 57

Receipts from each Ward during the Year Ending December 31, 1901.

Ward.	Assessment	Meter.	Special.	Plumbing.	Building.	Total.
First	$14,023 93	$ 3,311 02	$ 10 00	$ 295 30	$ 97 96	$ 17,738 21
Second	22,017 93	13,760 61	12 89	988 57	119 94	36,899 94
Third	24,457 75	6,336 17	34 28	178 29	120 88	31,127 37
Fourth	19,457 96	1,940 54	34 25	10 00	73 62	21,516 37
Fifth	10,475 34	2,857 20	16 34	75	168 63	13.518 26
Sixth	11,887 83	825 75	6 00	5 94	51 77	12,777 29
Seventh	11,017 58	728 15	19 17	30 85	16 38	1,812 13
	$103 338 32	$29,759 44	$132 93	$1,509 70	$ 649 18	$135,389 57

Cash Account of Secretary and Treasurer of Commissioners of Water Works, in the City of Erie, for the Year Ending December 31, 1901.

Month.	Receipts.	Deposited with Treasurer City of Erie.	Balance in Office at close of business each month.
January	$ 29,638 75	$ 26,451 48	$ 3,187 27
February	2,460 77	5,572 05	75 99
March	227 08	157 54	145 53
April	29,867 70	26,608 63	3,404 60
May	2,747 86	5,931 17	221 29
June	1,277 33	1,293 28	205 34
July	31,456 48	28,977 71	2,684 11
August	2,061 11	4,674 20	71 02
September	719 04	587 08	202 98
October	32,123 84	29,826 02	2,500 80
November	2,504 90	4,939 71	65 99
December	304 71	370 70	.....
Total	$135,389 57	$135,389 57	.....

Statement of Account with Treasurer of the City of Erie, for the Year Ending December 31, 1901.

Month.	Received from Sec'y and Treas. Commissioners of Water Works in the City of Erie.	Paid on Warrants of Commissioners of Water Works in the City of Erie.	Monthly Balances.
Balance from 1900	$ 380 14	$.....	$.....
January	26,451 48	8,766 05	18,065 57
February	5,572 05	4,991 66	18,645 96
March	157 54	7,628 29	11,175 21
April	26,608 63	7,800 29	29,983 55
May	5,931 17	12,709 05	23,205 67
June	1,293 28	10,704 24	13,794 71
July	28,977 71	6,689 01	36,083 41
August	4,674 20	14,127 90	26,629 71
September	587 08	10,050 21	17,166 58
October	29,826 02	8,566 91	38,425 69
November	4,939 71	12,809 13	30,556 27
December	370 70	14,367 86	16,559 11
Total	$135,769 71	$119,210 60	$16,559 11

Amount Collected Annually for Water Furnished, Showing Total Collections, also the Increase and Decrease Each Year Since the Commencement of the Water Works.

Year Ending Dec. 31st.	RECEIVED.		ANNUAL.	
	Annually.	Totals.	Increase.	Decrease.
1869	$ 4,264 47	$.....	$.....	$.....
1870	9,237 30	13,501 77	4,972 83	.....
1871	18,138 08	31,639 85	8,900 78	.....
1872	21,652 68	53,292 53	3,514 60	.....
1873	25,560 40	78,852 93	3,907 72	.....
1874	27,938 90	106,791 83	2,378 50	.....
1875	29,639 38	136,431 21	1,700 48	.....
1876	31,048 76	167,479 97	1,409 38	.....
1877	32,276 57	199,756 54	1,227 81	.....
1878	29,636 01	229,392 55	.....	2,640 56
1879	33,343 20	262,735 75	3,707 19	.....
1880	37,385 00	300,120 75	4,041 80	.....
1881	40,385 87	340,506 62	3,000 87	.....
1882	43,818 73	384,325 35	3,432 86	.....
1883	48,269 89	432,595 24	4,451 16	.....
1884	51,852 78	484,448 02	3,582 89	.....
1885	53,550 35	537,998 37	1,697 57	.....
1886	58,725 00	596,723 37	5,174 65	.....
1887	67,121 92	663,845 29	8,396 92	.....
1888	73,197 03	737,042 32	6,075 11	.....
1889	81,110 68	818,153 00	7,913 65	.....
1890	87,279 96	905,432 96	6,169 28	.....
1891	93,891 55	999,324 51	6,611 59	.....
1892	105,527 03	1,104,851 54	11,635 48	.....
1893	111,247 43	1,216,098 97	5,720 40	.....
1894	111,821 94	1,327,920 91	574 51*	.....
1895	116,927 63	1,444,848 54	5,105 69	.....
1896	121,442 94	1,566,291 48	4,515 31	.....
1897	124,106 61	1,690,398 09	2,663 67	.....
1898	131,303 48	1,821,701 57	7,196 87	.....
1899	139,344 02	1,961,054 59	8.040 54	.....
1900	122,198 58	2,083,253 17	.....	17,145 44‡
1901	133,879 87	2,217,133 04	11,681 29	.....

*Meter rates for water changed from a sliding scale of 6 cents to 10 cents per 1,000 gallons, according to amount consumed, to a flat rate of 6 cents per 1,000 gallons, causing a reduction in receipts of $5,000.00.

‡Meter rates changed from six cents per one thousand (1,000) gallons to twenty (20) cents for each one thousand (1,000) gallons for the first Twenty-five Thousand (25,000) gallons, and four (4) cents for each one thousand (1,000) gallons consumed thereafter during each current quarter. Same took effect July 1, 1899. Family rates changed from $5.00 per annum to $4.00, taking effect January 1, 1900. These changes in rates account for the heavy decrease in the receipts for 1900.

STATEMENT OF WARRANTS ISSUED IN 1901.

January.

TO PAY VOUCHER.

Date.	No.	Of For	Amount.
5	10779	Geo. C. Gensheimer, Ass't Sec'y, Sundries	$ 15 64
	10780	Pay Roll, Street Work, Disbursed by M. L. Whitley, Clerk	187 73
12	10781	Erie City Iron Works, Sand	1 00
	10782	People's Hack and Livery Co., Draying	1 25
	10783	Thomson Meter Co., Meter repairs	1 29
	10784	The Erie Gas Engine Co., Tools	1 50
	10785	Erie Steam Bending Works, Lumber	1 50
	10786	Hollands Manufacturing Co., Tools	1 64
	10787	J. G. Schlindwein, Repairing harness	2 40
	10788	A. P. Allen, Hay and straw	2 61
	10789	W. E. Hayes & Co., Lamp, wicks and shears	2 60
	10790	Times Publishing Co., Subscription, one year	3 00
	10791	Consumers' Ice and Cold Storage Co., Ice	3 15
	10792	Lyman Felheim, Wooden plugs	3 40
	10793	Murphy Bros., Hardware and tools	4 28
	10794	Baas & Althof, Window guards	4 75
	10795	The Flickinger Roofing and Cornice Co., Ltd., Tools	4 99
	10796	Chas. Gunnison & Co., Sole leather	5 63
	10797	The Dispatch Publishing Company, Subscription, one year	6 00
	10798	The New York and Penna. Tel. and Tel. Co., Rental of telephone	6 00
	10799	Wm. F. Nick & Son, Paint and oil	6 74
	10800	Erie Window Glass Co., Paint, oil, glass and putty	7 51
	10801	Brown & Thomas, Iron rail	9 00
	10802	United States Cast Iron Pipe and Foundry Co., Iron pipe	9 42
	10803	C. Kessler, Brooms, mops, soap, etc	10 15
	10804	Mehl & Sapper, Hardware and tools	10 46

January—Continued.

TO PAY VOUCHER.

Date.	No.	Of For	Amount.
	10805	Deming Bros., Meter boxes	$ 10 50
	10806	Franklin Coal Co., Coal and wood	10 50
	10807	Edison Construction & Supply Department, Repairs for electric light plant	12 72
	10808	Erie Company, Coke	12 87
	10809	Central Blacksmith Works, Horse shoeing	15 20
	10810	A. S. Pinney, Hardware and tools	18 38
	10811	Erie Engine Works, Patterns and engine repairs	19 19
	10812	The Constable Bros. Co., Labor and material on buildings	20 01
	10813	The Holly Manufacturing Co., Rubbers for Troy valves	20 15
	10814	William Schade, Blacksmith work	21 80
	10815	G. J. Gebhardt, Coal and wood	21 90
	10816	Standard Brick Works, Brick	22 80
	10817	R. T. Walker, Rent of barn, 6 months	30 00
	10818	Wm. Densmore & Co., Oats	32 00
	10819	Mayer Brothers, Repairing cuts in pavements	32 24
	10820	Union Iron Works, Work on coal elevator and boiler repairs	33 65
	10821	Mutual Telephone Company, Telephone rental	36 00
	10822	H. C. Dunn, Mgr., Brick	42 25
	10823	Henry R. Worthington, Engine repairs	44 15
	10824	E. J. Riblet, Shop rent and chairs	45 00
	10825	Union Ice Co., Ice	45 55
	10826	O. C. Thayer & Son, Cement and fire clay	55 75
	10827	Keystone Brass Co., Stair railing, etc.	59 12
	10828	Jarecki Manufacturing Co., Fittings and pipe	60 99
	10829	Ashby & Vincent, Stationery and printing	66 90
	10830	James L. Firman, Teaming	74 61
	10831	South Erie Iron Works, Castings	80 96
	10832	Hays Manufacturing Co., Fittings, curb cocks and boxes	116 09
	10833	W. P. Mason, Analyses of water for 1900	120 00

January—Continued.

TO PAY VOUCHER.

Date.	No.	Of For	Amount.
	10834	Erie Oil Company, Oil	$ 120 89
	10835	Erie Machine Shop, Boiler and engine repairs and tools	130 23
	10836	Union Oil Works, Oil	138 92
	10837	Keystone Electric Co., Electric motor and repairs to electric light plant	388 95
	10838	Erie Mfg. & Supply Co., Packing, tools, waste, etc	407 58
	10839	The Jeffrey Manufacturing Co., Coal elevator and conveyor	638 40
	10840	R. D. Wood & Co., Fire hydrants and stop vlaves	1,087 00
	10841	Momeyer & Graf, use The W. L. Scott Company, Coal	1,298 94
	10842	Board of Commissioners of the Sinking Fund of the City of Erie, City of Erie, Board of Commissioners of the Sinking Fund	2,000 00
	10843	Lovell Manufacturing Co., Ltd., Maintenance of fire hydrants	26 00
	10844	Geo. C. Gensheimer, Ass't Sec'y, Sundries	25 57
	10845	Pay Roll, Street Work, Disbursed by M. L. Whitley, clerk	134 69
	10846	Kirschner Brothers, Work on coal elevator and conveyor	240 00
19	10847	Geo. C. Gensheimer, Ass't Sec'y, Sundries	14 06
	10848	Isador Sobel, Postmaster, Postal cards	155 25
	10849	National Lead Company, Pig lead	168 64
	10850	Pay Roll, Street Work, Disbursed by M. L. Whitley, clerk	165 62
26	10851	Pay Roll, Street Work, Disbursed by M. L. Whitley, clerk	130 39
		Total	$ 8,766 05

February.

TO PAY VOUCHER.

Date.	No.	Of For	Amount.
1	10852	Pay Roll, Office and Inspectors, Disbursed by Geo. C. Gensheimer, Ass't Sec'y..$	941 66
	10853	Pay Roll, Pumping Station, Disbursed by Geo. C. Gensheimer, Ass't Sec'y..	935 00
2	10854	Pay Roll, Street Work, Disbursed by M. L. Whitley, Clerk.....	151 89
	10855	Geo. C. Gensheimer, Ass't Sec'y, Sundries.....	12 88
9	10856	Erie Oil Company, Oil.....	1 00
	10857	Dickson & Smith, Repairing lock,.....	1 00
	10858	Consumers' Ice & Cold Storage Co., Ice.....	1 40
	10859	Erie Heating & Plumbing Company, Repairing water closet.....	1 50
	10860	Reno Manufacturing Co.. Neck yoke.....	1 50
	10861	O. C. Thayer & Son, Cement and fire clay.....	1 60
	10862	U. D. Sweigard, Copper pans.....	1 80
	10863	Erie Steam Bending Works, Lumber.....	2 00
	10864	Erie Window Glass Co., Paint.....	2 25
	10865	Holland's Manufacturing Co., Tools.....	2 38
	10866	Lyman Felheim, Lumber.....	2 75
	10867	The Dispatch Publishing Company, Advertising.....	3 00
	10868	Herald Printing & Publishing Co., Advertising and stationery.....	3 20
	10869	Murphy Bros., Hardware and tools.....	3 83
	10870	T. S. Buck, Rubber stamps.....	4 00
	10871	Times Publishing Company, Advertising.....	4 40
	10872	A. S. Pinney, Hardware and tools.....	4 48
	10873	Wm. F. Nick & Son, Oil, paint and varnish.....	4 73
	10874	S. S. Burton, Coal.....	5 25
	10875	F. A. Douglas, Alarm bells, etc.....	5 95
	10876	The New York & Penna. Telephone & Telegraph Co., Rental of telephone.....	6 00
	10877	Central Blacksmith Works, Horse shoeing and tools.....	8 30
	10878	David Schlosser & Sons, Lumber.....	11 36
	10879	G. J. Gebhardt, Coal.....	12 50
	10880	Mehl & Sapper, Hardware and tools.....	15 02

February—Continued.

TO PAY VOUCHER.

Date.	No.	Of For	Amount.
	10881	Wm. Densmore & Co., Oats	$ 17 00
	10882	Keystone Electric Company, Repairs to electric light plant	17 88
	10883	Edison Construction and Supply Department, Carbons and repairs to electric light plant	19 15
	10884	E. J. Riblet, Shop Rent	20 00
	10885	Erie Machine Shop, Engine repairs	33 70
	10886	The Himrod Engraving Company, Stationery	37 35
	10887	Jarecki Manufacturing Co., Fittings and pipe	39 76
	10888	Erie Engine Works, Castings, patterns, etc	89 69
	10889	Erie Mfg. & Supply Co., Valves, packing, waste, etc	127 64
	10890	National Lead Company, Wiping solder	135 68
	10891	Globe Iron Foundry Co., Castings	167 01
	10892	Union Oil Works, Oil	167 59
	10893	Library Bureau, Stationery	195 25
	10894	Hays Manufacturing Co., Fittings	209 17
	10895	Henry R. Worthington, Engine repairs	219 47
	10896	Momeyer & Graf, use The W. L. Scott Company, Coal	630 35
	10897	Pay Roll, Street Work, Disbursed by M. L. Whitley, clerk	122 69
16	10898	Pay Roll, Street Work, Disbursed by M. L. Whitley, clerk	108 89
	10899	Hays Manufacturing Company, Pipe	235 66
23	10900	Thomas A. Walton, On account on contract	75 00
	10901	Pay Roll, Street Work, Disbursed by M. L. Whitley, clerk	128 14
	10902	John Kolb, bookkeeper, Sundry small items	41 96
		Total	$ 4,991 66

March.

TO PAY VOUCHER.

Date.	No.	Of For	Amount.
1	10903	T. W. Shacklett, Services as Commissioner, 2 months	$ 150 00
	10904	Clark Olds, Services as Commissioner, 2 months	150 00
	10905	G. F. Brevillier, Services as Commissioner, 2 months	150 00
	10906	Pay Roll, Pumping Station, Disbursed by Geo. C. Gensheimer, Ass't Sec'y.	935 00
	10907	Pay Roll, Office and Inspectors, Disbursed by Geo. C. Gensheimer, Ass't Sec'y.	941 66
2	10908	Pay Roll, Street Work, Disbursed by M. L. Whitley, Clerk	176 64
9	10909	Erie Heating & Plumbing Company, Plumbing material	1 00
	10910	Consumers' Ice & Cold Storage Co., Ice	1 40
	10911	J. G. Schlindwein, Repairing harness	1 85
	10912	O. C. Thayer & Son, Fire clay	2 00
	10913	Wm. F. Nick & Son, Oil and paint	2 60
	10914	South Erie Iron Works, Fire pot	2 90
	10915	Held, Gorenflo & Co., Advertising	4 00
	10916	Murphy Bros., Pails	4 00
	10917	American Arithmometer Company, Ruled paper	4 75
	10918	Fred Nick, Oil and paint	5 25
	10919	A. S. Pinney, Hardware and tools	5 86
	10920	Mehl & Sapper, Hardware and tools	8 14
	10921	Henry Althof, Wire window guards	10 50
	10922	C. Kessler, Brooms, soap, tallow, etc.	11 05
	10923	Jarecki Manufacturing Co., Fittings	23 83
	10924	T. S. Buck, Rubber stamps	24 73
	10925	Erie Machine Shop, Engine repairs	31 84
	10926	American Oil Works, Boiler compound	34 41
	10927	Mutual Telephone Company, Telephone rental	36 00
	10928	Ashby & Vincent, Stationery, books and printing	49 55
	10929	Wm. Schade, Blacksmith work	66 63
	10930	Herald Printing & Publishing Co., Stationery and printing	88 50
	10931	Erie Oil Company, Oil	93 01

March—Continued.

TO PAY VOUCHER.

Date.	No.	Of For	Amount.
	10932	Hays Manufacturing Co., Fittings	$ 93 77
	10933	Erie Mfg. & Supply Co., Oil, packing, tools, etc.	122 38
	10934	Henry R. Worthington, Jacket, tank and pump	125 00
	10935	Carnegie Steel Company, Structural steel	128 97
	10936	Constable Bros., Labor and material on buildings	168 57
	10937	R. D. Wood & Co., Gate valves and valve stems	515 40
	10938	Momeyer & Graf, use The W. L. Scott Company, Coal	792 14
	10939	George C. Gensheimer, Ass't Sec'y, Sundries	16 21
	10940	William Roy, Painting	24 38
	10941	Charles Bengal, Painting engine No. 4	95 00
	10942	Pay Roll, Street Work, Disbursed by M. L. Whitley, Clerk	128 19
16	10943	Geo. C. Gensheimer, Ass't Sec'y, Sundries	39 25
	10944	Pay Roll, Street Work, Disbursed by M. L. Whitley, Clerk	138 14
23	10945	Geo. C. Gensheimer, Ass't Sec'y, Sundries	6 18
	10946	Pay Roll, Street Work, Disbursed by M. L. Whitley, Clerk	165 87
30	10947	Geo. C. Gensheimer, Ass't Sec'y, Sundries	8 09
	10948	The Henesey Mfg. Co., Leather washers	9 80
	10949	Pay Roll, Street Work, Disbursed by M. L. Whitley, Clerk	157 19
	10950	Pay Roll, Pumping Station, Disbursed by Geo. C. Gensheimer, Ass't Sec'y	935 00
	10951	Pay Roll, Office and Inspectors, Disbursed by Geo. C. Gensheimer, Ass't Sec'y	941 66
		Total	$7,628 29

April.

TO PAY VOUCHER.

Date.	No.	Of For	Amount.
3	10952	S. A. Davenport, Counsel fees	$ 100 00
6	10953	Thos. A. Walton, Repairing piers and dock	100 00
	10954	William Roy, Painting Engine House No. 3	6 25
	10955	Geo. C. Gensheimer, Ass't Sec'y, Sundries	58 98
	10956	Pay Roll, Street Work, Disbursed by M. L. Whitley, Clerk	280 60
	10957	John Wahl Commission Company, Pig lead	1,275 54
13	10958	Erie Window Glass Co., Paints, etc.	1 00
	10959	Jarecki Manufacturing Co., Fitting	1 25
	10960	F. A. Douglas, Repairing electric bell	1 35
	10961	Consumers' Ice & Cold Storage Co., Ice	1 75
	10962	Plumbers' Trade Journal, Annual subscription	2 00
	10963	C. Flickinger, Repairing tools	2 52
	10964	Ashby & Vincent, Stationery	3 25
	10965	Lyman Felheim, Lumber	3 61
	10966	Union Iron Works, Material and labor	3 75
	10967	C. Kessler, Brooms, wicks and candles	4 90
	10968	New York & Penn'a Telephone & Telegraph Co., Telephones	6 00
	10969	A. S. Pinney, Hardware	7 42
	10970	O. C. Thayer & Son, Fire clay and fire brick	8 00
	10971	Helios-Upton Co., Thermometers	10 50
	10972	Central Blacksmith Works, Blacksmithing	10 80
	10973	Mehl & Sapper, Hardware	10 81
	10974	G. J. Gebhardt, Fuel	12 25
	10975	Keystone Electric Company, Arc light globes	15 00
	10976	Wm. Densmore & Company, Oats	17 00
	10977	The Constable Bros. Company, Lumber and labor	19 56
	10978	E. J. Riblet, Rent of shop	20 00
	10979	The Standard Pharmacy, Paints and oils	20 56
	10980	John Hamberger, Insurance	25 00

April—Continued.

TO PAY VOUCHER.

Date.	No.	Of For	Amount.
	10981	Edison Construction & Supply Department, Electric light fixtures, etc.	$ 25 07
	10982	Herald Printing & Publishing Co., Stationery and printing	31 20
	10983	American Oil Works, Boiler compound	33 36
	10984	Erie Machine Shop, Machine work	47 59
	10985	Henry R. Worthington, Special Jenkins valves	49 00
	10986	National Lead Company, Wiping solder	66 41
	10987	Carnegie Steel Company, Structural steel	70 86
	10988	Union Oil Works, Oil	102 42
	10989	R. D. Wood & Co., Stop valves	106 00
	10990	Globe Iron Foundry Co., Castings	114 37
	10991	Hays Manufacturing Co., Pipe, fittings, etc.	122 44
	10992	Erie Mfg. & Supply Co., Oil, packing, tools, etc.	142 65
	10993	Library Bureau, Desks and stationery	211 65
	10994	Momeyer & Graf, use The W. L. Scott Co., Fuel	461 39
	10995	F. E. Reed Company, Machinery lathe	690 00
	10996	United States Cast Iron Pipe & Foundry Co., Pipe and specials	701 96
	10997	Municipal Journal and Engineer, Annual subscription	3 00
	10998	The Lake Shore & Michigan Southern Ry. Co., Freight on pipe and specials	85 50
	10999	Thomas A. Walton, Repairing piers and dock	100 00
	11000	Geo. C. Gensheimer, Ass't Sec'y, Sundries	26 63
	11001	David Schlosser & Sons, Lumber	19 17
	11002	Pay Roll, Street Work, Disbursed by M. L. Whitley, Clerk	433 04
20	11003	Thomas A. Walton, Repairing piers and dock	100 00
	11004	T. S. Buck, Rubber stamps	6 75
	11005	The Lake Shore & Michigan Southern Ry. Co., Freight on pipe	65 95
	11006	Geo. C. Gensheimer, Ass't Sec'y, Sundries	71 05
	11007	Herald Printing & Publishing Co., Annual Reports	400 50
	11008	Pay Roll, Street Work, Disbursed by M. L. Whitley, Clerk	435 79
	11009	Geo. Carroll & Bros. Co., Repairing piers and dock	500 00

April—Continued.

TO PAY VOUCHER.

Date.	No.	Of For	Amount.
27	11010	Geo. C. Gensheimer, Ass't Sec'y, Sundries	$ 16 85
	11011	The Lake Shore & Michigan Southern R'y Co., Freight on pipe	32 05
	11012	Pay Roll, Street Work, Disbursed by M. L. Whitley, Clerk	372 99
	11013	A. S. Pinney, Repairing piers and dock	125 00
		Total	$7,800 29

May.

TO PAY VOUCHER.

Date.	No.	Of For	Amount.
1	11014	T. W. Shacklett, Services as Commissioner, 2 months	$ 150 00
	11015	Clark Olds, Services as Commissioner, 2 months	150 00
	11016	G. F. Brevillier, Services as Commissioner, 2 months	150 00
	11017	Pay Roll, Office and Inspectors, Disbursed by Geo. C. Gensheimer, Ass't Sec'y.	841 66
	11018	Pay Roll, Pumping Station, Disbursed by Geo. C. Gensheimer, Ass't Sec'y.	935 00
4	11019	Thomas A. Walton, Repairing piers and dock	100 00
	11020	The Lake Shore & Michigan Southern R'y Co. Freight	12 50
	11021	Geo. C. Gensheimer, Ass't Sec'y, Sundries	51 33
	11022	J. C. Quintus, Plans and specifications	75 00
	11023	Pay Roll, Street Work, Disbursed by M. L. Whitley, Clerk	631 57
	11024	H. F. Watson Company, Paper	1 00
	11025	Union Ice Co., Ice	1 40
	11026	Erie Steam Bending Works, Hickory pieces	2 00
	11027	Library Bureau, Guide cards	2 50
	11028	O. C. Thayer & Son, Cement, etc.	3 00
	11029	Mehl & Sapper, Hardware	3 89
	11030	H. C. Gross, Wood	4 40
	11031	Erie Window Glass Co., Glass and benzine	5 30
	11032	David Schlosser & Sons, Lumber	5 79
	11033	Thomson Meter Co., Repairing	5 91
	11034	Engineering News, Annual subscription	5 00

May—Continued.

TO PAY VOUCHER.

Date.	No.	Of	For	Amount.
	11035	Erie Company,	Coke	$ 6 23
	11036	G. J. Gebhardt,	Coal	6 25
	11037	Central Blacksmith Works,	Blacksmithing	6 40
	11038	Herald Printing & Publishing Co.,	Stationery	6 55
	11039	Wm. F. Nick,	Paints and oils	7 05
	11040	Jarecki Manufacturing Co.,	Fittings	7 48
	11041	The Bristol Company,	Charts	7 50
	11042	Keystone Brass Co.,	Fittings	7 55
	11043	Union Oil Works,	Oil	8 56
	11044	U. D. Sweigard,	Lanterns	10 00
	11045	Lake City Machine Shop,	Tools	16 00
	11046	Holland's Manufacturing Co.,	Tools	16 05
	11047	Wm. Densmore & Co.,	Oats	17 50
	11048	South Erie Iron Works,	Meter tops	18 00
	11049	Lyman Felheim,	Lumber	18 66
	11050	E. J. Riblet,	Rent of shop	20 00
	11051	Henry Beckman & Sons,	Clover seed	26 00
	11052	Ashby & Vincent,	Stationery	26 55
	11053	Constable Bros.,	Lumber and labor	27 49
	11054	Erie Forge Company, Ltd.,	Material and labor	28 90
	11055	Erie Machine Shop,	Material and labor	29 00
	11056	A. S. Pinney,	Hardware	30 59
	11057	Wm. G. Johnston & Co.,	Loose leaf journal	30 97
	11058	Joseph Wills,	Registering gauge	65 00
	11059	James L. Firman,	Teaming	87 91
	11060	Erie Oil Company,	Oil	110 94
	11061	Hays Manufacturing Co.,	Fittings, labor, etc	154 81
	11062	Wm. Schade,	Blacksmithing and material	177 55
	11063	Warner Bros.,	Linoleum, matting, etc	201 38

May—Continued.

TO PAY VOUCHER.

Date.	No.	Of For	Amount.
	11064	Mayer Bros., Repairing pavements	$ 214 42
	11065	Keystone Electric Company, Electrical machines and repairs	306 66
	11066	Erie Mfg. & Supply Co., Hoists, waste, packing, etc.	378 57
	11067	Momeyer & Graf, use The W. L. Scott Company, Coal	640 24
	11068	United States Cast Iron Pipe & Foundry Co., Cast iron pipe and specials	3,935 91
	11069	Geo. C. Gensheimer, Ass't Sec'y Sundries	7 98
	11070	Pay Roll, Street Work, Disbursed by M. L. Whitley, Clerk	628 35
	11071	Ashby & Vincent, Blank reports	200 60
18	11072	Thomas A. Walton, Repairing piers and docks	100 00
	11073	Geo. C. Gensheimer, Ass't Sec'y, Sundries	12 29
	11074	T. W. Shacklett, Services as Commissioner	50 00
	11075	Pay Roll, Street Work, Disbursed by M. L. Whitley, Clerk	610 77
25	11076	Mrs. Kate Stablein, Connections, repairs	2 30
	11077	Geo. C. Gensheimer, Ass't Sec'y, Sundries	16 06
	11078	Erie Sand & Gravel Co., Inc., Repairing piers and dock	49 00
	11079	Geo. Carroll & Bro. Co., Repairing piers and dock	525 00
	11080	Pay Roll, Street Work, Disbursed by M. L. Whitley, Clerk	641 78
	11081	Thomas A. Walton, Repairing piers and dock	75 00
		Total	$12,709 05

June.

TO PAY VOUCHER.

Date.	No.	Of For	Amount.
1	11082	Geo. C. Gensheimer, Ass't Sec'y, Sundries	$ 41 28
	11083	Pay Roll, Street Work, Disbursed by M. L. Whitley, Clerk	517 02
	11084	Pay Roll, Office and Inspectors, Disbursed by Geo. C. Gensheimer, Ass't Sec'y	851 66
	11085	Pay Roll, Pumping Station, Disbursed by Geo. C. Gensheimer, Ass't Sec'y	935 00
8	11086	J. L. Kelley, Repairing lawn mower	1 00
	11087	Pennsylvania Rubber Works, Stock rubber	1 23
	11088	Lyman Felheim, Pipe plugs and lumber	1 29
	11089	The Conard & Jones Company, Plants	1 50
	11090	Keystone Brass Co., Tubing, etc	1 54
	11091	Municipal Engineering Co., Annual subscription	2 00
	11092	Franklin Coal Co., Wood	2 25
	11093	Union Iron Works, Material and labor	2 42
	11094	J. Jacobs, Oilskins	2 50
	11095	Keystone Blue Paper Co., Bevel scale and ink	2 70
	11096	Deming Bros., Meter box	3 00
	11097	Central Blacksmith Works, Blacksmithing	3 20
	11098	Wm. F. Nick & Son, Oil, etc	3 45
	11099	Murphy Bros.; Oil cans, galvanized pipe and solder	3 50
	11100	Erie Window Glass Co., Glass	3 50
	11101	U. D. Sweigard, Repairing pump, etc	4 41
	11102	G. J. Gebhardt, Blacksmithing coal	5 00
	11103	Jarecki Manufacturing Co., Expansion joint, bushings and globe valve	5 89
	11104	Henry Beckman & Sons, Clover seed	6 50
	11105	A. S. Pinney, Hardware	7 95
	11106	Erie Company, Coke	9 59
	11107	O. C. Thayer & Son, Cement and tile	10 30
	11108	Standard Brick Works, Brick	10 80
	11109	Keystone Electric Company, Material and labor for electric plant	10 95
	11110	H. C. Dunn, Manager, Brick	11 05

June—Continued.

TO PAY VOUCHER.

Date.	No.	Of For	Amount.
	11111	Herald Printing & Publishing Co., Stationery	$ 11 25
	11112	C. Kessler, Soap, wicks, mop cloths, etc	17 40
	11113	Wm. Densmore & Co., Oats	18 00
	11114	Mehl & Sapper, Hardware	19 07
	11115	John Reinhold, jr., Oils and paints	23 60
	11116	E. J. Riblet, Rent of shop and fixing chair	24 40
	11117	U. S. Cast Iron Pipe and Foundry Co., Cast iron tee	28 24
	11118	Constable Bros., Material and labor	33 94
	11119	Erie Engine Works, Material and labor	34 71
	11120	Mutual Telephone Company, Rental of telephones	36 00
	11121	Henry R. Worthington, Water valves for fifteen million gallon engine	49 35
	11122	Globe Iron Foundry Co., Castings	72 86
	11123	Union Water Meter Co., Meters and repairs	188 75
	11124	Momeyer & Graff, use The W. L. Scott Company, Coal	1,338 05
	11125	Union Ice Co., Ice	1 75
	11126	Mayer Bros., Repairing paved streets	9 19
	11127	Geo. C. Gensheimer, Ass't Sec'y, Sundries	15 17
	11128	James L. Firman, Teaming	28 43
	11129	Erie Manufacturing & Supply Co., Drill press, waste, packing, etc	338 46
	11130	Pay Roll, Street Work, Disbursed by M. L. Whitley, Clerk	565 88
	11131	Hays Manufacturing Co., Pipe and fittings	1,167 14
15	11132	Wm. Roy, Painting at pumping station	8 75
	11133	Geo. C. Gensheimer, Ass't Sec'y, Sundries	11 20
	11134	Pay Roll, Street Work, Disbursed by M. L. Whitley, Clerk	643 51
22	11135	Thomas A. Walton, Repairing piers and dock	50 00
	11136	Pay Roll, Street Work, Disbursed by M. L. Whitley, Clerk	591 39
29	11137	Mrs. Orilla Block, Washing towels	6 00
	11138	Geo. C. Gensheimer, Ass't Sec'y, Sundries	93 25
	11139	Clark Olds, Services as Commissioner, 2 months	150 00

June—Continued.

TO PAY VOUCHER.

Date.	No.	Of For	Amount.
	11140	G. F. Brevillier, Services as Commissioner, 2 months	$ 150 00
	11141	Willis B. Durlin, Services as Commissioner	100 00
	11142	Pay Roll, Street Work, Disbursed by M. L. Whitley, Clerk	629 36
	11143	Pay Roll, Office and Inspectors, Disbursed by Geo. C. Gensheimer, Ass't Sec'y	851 66
	11144	Pay Roll, Pumping Station, Disbursed by Geo. C. Gensheimer, Ass't Sec'y	935 00
		Total	$ 10,704 24

July.

TO PAY VOUCHER.

Date.	No.	Of For	Amount.
6	11145	Geo. C. Gensheimer, Ass't Sec'y, Sundries	$ 13 15
	11146	Pay Roll, Street Work, Disbursed by M. L. Whitley, Clerk	508 04
13	11147	D. McCarty, Tile	1 15
	11148	Wm. F. Nick & Son, Oil, etc	1 30
	11149	Lyons Bros., Repairs to connections	2 50
	11150	T. S. Buck, Repairing numbering machine	2 97
	11151	Duerner's Cooper Works, Tub	3 00
	11152	Henry Mayer, Washed gravel	3 00
	11153	W. C. Hull, Blacksmithing	3 20
	11154	Hollands Manufacturing Co., Tools	3 23
	11155	Erie Window Glass Co., Glass	3 50
	11156	D. McCormick & Co., Repairing tool wagons	3 60
	11157	Thomson Meter Co., Repairing meters	3 87
	11158	L. Vincent Metz, Work on map	4 40
	11159	H. C. Gross, Wood	4 40
	11160	Lyman Felheim, Wooden plugs	4 48
	11161	Deming Bros., Meter box	4 50
	11162	A. S. Pinney, Hardware	5 67
	11163	New York & Penna. Telephone and Telegraph Co., Telephone service	6 00
	11164	Erie Company, Coke	6 43

July—Continued.

TO PAY VOUCHER.

Date.	No.	Of For	Amount.
	11165	O. C. Thayer & Son, Cement and lime	$ 7 05
	11166	W. J. Butler, agent, Repairing connections	7 27
	11167	Edison Construction and Supply Department, Electric appliances	7 32
	11168	D. P. Murphy, Work at Pumping Station	10 13
	11169	Mehl & Sapper, Hardware	11 27
	11170	John Reinhold, jr., Oils, etc	14 05
	11171	Ball Engine Works, Large wrench	14 13
	11172	Frank Dudenhoeffer, Brick	15 63
	11173	U. D. Sweigard, Lanterns, etc	15 70
	11174	James L. Firman, Teaming	18 99
	11175	E. J. Riblet, Rent of shop	20 00
	11176	Union Water Meter Company, Repairing Meter	22 90
	11177	Constable Bros., Repairs at Pumping Station	25 74
	11178	The Himrod Engraving Company, Stationery	28 75
	11179	R. T. Walker, Rent of barn	30 00
	11180	Americen Oil Works, Boiler compound	33 57
	11181	William Schade, Blacksmithing	39 97
	11182	Schluraff Floral Co., Flower bed at Pumping Station Park	40 00
	11183	Herald Printing and Publishing Co., Warrants, books, etc	47 75
	11184	Erie City Iron Works, Arc liners for boilers	60 60
	11185	National Carbon Co., Carbons	81 67
	11186	Erie Machine Shop, Machine work	84 09
	11187	Globe Iron Foundry Co., Castings	98 00
	11188	Erie Engine Works, Boring bar, etc	101 93
	11189	Erie Oil Co., Oil	133 64
	11190	Union Oil Works, Oil	162 25
	11191	Erie Mfg. and Supply Co., Waste, packing, forge, etc	210 98
	11192	Henry Herbst, Collector, Taxes, Fourth Ward	231 25
	11193	The W. L. Scott Company, Coal	359 84

July—Continued.

TO PAY VOUCHER.

Date.	No.	Of For	Amount.
	11194	Hays Manufacturing Co., Pipe, fittings, etc.	$ 416 79
	11195	United States Cast Iron Pipe and Foundry Company, Cast iron pipe	1,729 00
	11196	S. G. Ames, Blacksmithing	9 10
	11197	Geo. C. Gensheimer, Ass't Sec'y, Sundries	15 89
	11198	Pay Roll, Street Work, Disbursed by M. L. Whitley, Clerk	645 86
20	11199	Geo. C. Gensheimer, Ass't Sec'y, Sundries	25 09
	11200	Pay Roll, Street Work, Disbursed by M. L. Whitley, Clerk	663 94
27	11201	Geo. C. Gensheimer, Ass't Sec'y, Sundries	10 70
	11202	Pay Roll, Street Work, Disbursed by M. L. Whitley, Clerk	649 78
		Total	$ 6,689 01

August.

TO PAY VOUCHER.

Date.	No.	Of For	Amount.
1	11203	Pay Roll, Office and Inspectors, Disbursed by Geo. C. Gensheimer, Ass't Sec'y	$ 851 66
	11204	Pay Roll, Pumping Station, Disbursed by Geo. C. Gensheimer, Ass't Sec'y	935 00
3	11205	T. H. Gray, Medical attendance	10 00
	11206	Geo. C. Gensheimer, Ass't Sec'y, Sundries	22 42
	11207	Pay Roll, Street Work, Disbursed by M. L. Whitley, Clerk	646 18
10	11208	Union Water Meter Co., Repairs to meter	1 00
	11209	Keystone Brass Co., Sheet copper, etc	1 35
	11210	Lyman Felheim, Mortar box	1 75
	11211	J. G. Schlidwein, Wagon grease and repairs to harness	1 85
	11212	Keystone Electric Company, Repairs to arc lamps	2 44
	11213	G. J. Gebhardt, Blacksmith coal	2 60
	11214	Erie Company, Coke	2 85
	11215	The Erie City Directory, Erie City Directory	3 00
	11216	Fire and Water, Annual subscription	3 00
	11217	F. A. Douglas, Repairs to electrical bell at pumping station	3 30
	11218	C. Kessler, Brooms, etc	3 60

August—Continued.

TO PAY VOUCHER.

Date.	No.	Of For	Amount.
	11219	Warfel & Arbuckle, Fly nets for horses	$ 4 00
	11220	Erie Machine Shops, Repairs to Gaskill engine	4 93
	11221	U. D. Sweigard, Galvanized iron, solder and labor	5 02
	11222	W. C. Hull, Blacksmithing	5 60
	11223	Thomson Meter Co., Repairs to meters	6 05
	11224	Wm. E. Louch, Canvas hose	7 50
	11225	Union Ice Co., Ice	8 96
	11226	Hollands Manufacturing Co., Repairs to wrenches, etc.	9 18
	11227	A. S. Pinney, Hardware	9 43
	11228	Bacon Novelty Co., Railroad ties	10 00
	11229	John Reinhold, jr., Asphaltum, brush and sponges	10 95
	11230	Mehl & Sapper, Hardware	11 37
	11231	Erie City Granite and Marble Co., Stone for drinking fountain	12 00
	11232	Jarecki Manufacturing Co., Fittings	13 25
	11233	Edison Construction and Supply Department, Repairs to electric lights	13 32
	11234	O. C. Thayer & Son, Cement and tile	14 81
	11235	Wm. Densmore & Co., Oats	18 00
	11236	Erie Forge Company, Forging for Gaskill engine	19 00
	11237	R. D. Wood & Co., Repairs to fire hydrants	19 20
	11238	E. J. Riblet, Rent of shop	20 00
	11239	H. C. Dunn, Manager, Brick	26 65
	11240	The Henesey Manufacturing Co., Leather washers	26 95
	11241	Westinghouse Electric and Mfg. Company, Worm gear for boring bar	27 85
	11242	The Constable Bros. Company, Material and labor	31 46
	11243	Ashby Printing Co., Stationery and printing	35 50
	11244	The Cleveland Trinidad Paving Co., Repairs to asphalt pavements	38 25
	11245	Globe Iron Foundry Co., Castings	40 00
	11246	W. E. Long, Collector, Taxes, Sixth Ward	59 75
	11247	James L. Firman, Teaming	75 52

August—Continued.

TO PAY VOUCHER.

Date.	No.	Of For	Amount.
	11248	The J. L. Mott Iron Works, Drinking fountain	$ 89 00
	11249	Henry R. Worthington, Valves for Worthington engine	118 12
	11250	Erie Manufacturing and Supply Co., Waste packing, etc.	127 36
	11251	Union Oil Works, Oil	177 54
	11252	Hays Manufacturing Company, Pipe, fittings, etc.	570 61
	11253	The W. L. Scott Co., Coal	1,071 76
	11254	United States Cast Iron Pipe and Foundry Company, Pipe and specials	1,216 30
	11255	Pay Roll, Street Work, Disbursed by M. L. Whitley, Clerk	621 78
	11256	Geo. C. Gensheimer, Ass't Sec'y, Sundries	36 02
17	11257	Geo. C. Gensheimer, Ass't Sec'y, Sundries	9 23
	11258	Pennsylvania Company, Freight on wrought iron pipe	14 25
	11259	The Perfection Steam Clamp Mfg. Co., Clamps for steam pipe	23 67
	11260	B. E. Briggs, City Engineer, Stone for filling sectional piers	25 00
	11261	Pay Roll, Street Work, Disbursed by M. L. Whitley, Clerk	581 82
	11262	Oil Well Supply Co., Galvanized iron pipe	699 85
23	11263	Hoyt Metal Company, Pig lead	1,774 16
24	11264	Geo. C. Gensheimer, Ass't Sec'y, Sundries	11 07
	11265	Nelson Meyette, Painting walls and ceiling of office	76 00
	11266	Pay Roll, Street Work, Disbursed by Geo. C. Gensheimer, Ass't Sec'y	590 53
	11267	Thomas A. Walton, Repairing piers and dock	25 00
31	11268	Thomas Paskett, Stone for filling sectional piers	101 30
	11269	Thomas A. Walton, Repairing piers and dock	149 70
	11270	Clark Olds, Services as Commissioner, 2 months	150 00
	11271	G. F. Brevillier, Services as Commissioner, 2 months	150 00
	11272	Willis B. Durlin, Services as Commissioner, 2 months	150 00
	11273	Pay Roll, Office and Inspectors, Disbursed by Geo. C. Gensheimer, Ass't Sec'y	851 66
	11274	Pay Roll, Pumping Station, Disbursed by Geo. C. Gensheimer, Ass't Sec'y	935 00
	11275	Geo. C. Gensheimer, Ass't Sec'y, Sundries	8 65
	11276	Pay Roll, Street Work, Disbursed by Geo. C. Gensheimer, Ass't Sec'y	696 02
		Total	$ 14,127 90

September.

TO PAY VOUCHER.

Date.	No.	Of For	Amount.
7	11277	Geo. C. Gensheimer, Ass't Sec'y, Sundries	$ 12 83
	11278	Pay Roll, Street Work, Disbursed by M. L. Whitley, Clerk	633 37
14	11279	J. G. Schlindwein, Repairs to harness	1 20
	11280	Gus. J. Miller, Sponges and paris green	1 25
	11281	Jarecki Manufacturing Co., Fittings	1 25
	11282	Keystone Brass Co., Material and labor	1 35
	11283	The Constable Bros. Company, Material and labor	1 75
	11284	U. D. Sweigard, Material and labor	1 96
	11285	Wm. F. Nick & Son, Oil, etc	2 40
	11286	T. E. Healy, Rolled oats	2 85
	11287	Curtis Johnson & Son, Repairs to meter box	3 25
	11288	Erie Machine Shops, Material and labor	3 33
	11289	Hollands Manufacturing Co., Repairs to tools	4 05
	11290	W. C. Hull, Blacksmithing	5 60
	11291	H. C. Gross, Wood	4 40
	11292	John Reinhold, jr., Paints and oils	7 10
	11293	Emil Streuber, Sole leather	7 56
	11294	Erie Company, Coke	7 60
	11295	Lyman Felheim, Wooden plugs and lumber	8 28
	11296	Keystone Electric Co., Repairs to electric light plant	9 60
	11297	Union Iron Works, Material and labor	11 07
	11298	C. Kessler, Soap, brooms, etc	12 50
	11299	The Erie Real Estate Title Company, Abstract to real estate	13 00
	11300	Union Oil Works, Oil	13 04
	11301	Louis J. Bauman, Cleaning carpets	13 23
	11302	H. C. Dunn, Manager, Brick	14 30
	11303	O. C. Thayer & Son, Tile and cement	16 95
	11304	E. J. Riblet, Rent of shop	20 00
	11305	Mehl & Sapper, Hardware	20 40

G. F. BREVILLIER.

COMMISSIONER SINCE 1900.

September—Continued.

TO PAY VOUCHER.

Date.	No.	Of For	Amount.
	11306	Edison Construction and Supply Department, Repairs to Electric Light plant	$ 22 35
	11307	Wm. Schade, Blacksmithing and material	22 79
	11308	Mayer Bros., Repairing paved streets	21 74
	11309	Wm. Densmore & Co., Oats	22 50
	11310	Union Ice Company, Ice	29 42
	11311	Lake City Machine Shop, Material and labor	30 00
	11312	Dickson & Gee, Powder, fuse and caps	30 51
	11313	A. S. Pinney, Hardware	32 49
	11314	Erie City Iron Works, Castings	36 00
	11315	Mutual Telephone Company, Use of telephones and lines	36 00
	11316	James L. Firman, Teaming	55 06
	11317	Ashby Printing Co., Printing and stationery	68 70
	11318	Henry R. Worthington, Material for pumping engine	103 45
	11319	Erie Oil Company, Oil	125 78
	11320	Union Water Meter Co., Meters	180 00
	11321	Isador Sobel, Postmaster, Postal cards	158 25
	11322	Erie Manufacturing and Supply Co., Waste, packing, etc	191 88
	11323	Hays Manufacturing Co., Pipes, fittings, etc	49. 43
	11324	The W. L. Scott Company, Coal	645 04
	11325	United States Cast Iron Pipe and Foundry Company, Pipe and specials	1,174 44
	11326	R. D. Wood & Co., Valves, fire hydrants, etc	1,264 50
	11327	Geo. C. Gensheimer, Ass't Sec'y, Sundries	5 45
	11328	Joseph Land, Setting curbstones	14 40
	11329	Pay Roll, Street Work, Disbursed by M. L. Whitley, Clerk	700 99
	11330	Harriett Cochran, Real estate	600 00
21	11331	Pay Roll, Street Work, Disbursed by M. L. Whitley, Clerk	576 22
28	11332	Union Manufacturing Co., Repairs to tools	2 16
	11333	Geo. C. Gensheimer, Ass't Sec'y, Sundries	30 77
	11334	Pay Roll, Street Work, Disbursed by M. L. Whitley, Clerk	698 26

September—Continued.

TO PAY VOUCHER.

Date.	No.	Of For	Amount.
	11335	Pay Roll, Office and Inspectors, Disbursed by Geo. C. Gensheimer, Ass't Sec'y..	$884 16
	11336	Pay Roll, Pumping Station, Disbursed by Geo. C. Gensheimer, Ass't Sec'y..	940 00
		Total.....	$ 10,050 21

October.

TO PAY VOUCHER.

Date.	No.	Of For	Amount.
1	11337	W. A. Tompkins, Dory.....	$ 35 00
	11338	Pennsylvania Company, Limestone siftings.....	37 50
5	11339	Held, Gorenflo & Co., Blank quarterly bills for 1902.....	32 50
	11340	Geo. C. Gensheimer, Ass't Sec'y, Sundries.....	34 01
	11341	John J. O'Brien, Assessment notices for 1902.....	39 90
	11342	Pay Roll, Street Work, Disbursed by M. L. Whitley, Clerk	748 08
12	11343	The Sunday Messenger Co., Advertising for bids on pier work.....	1 00
	11344	Keystone Brass Co., Repairing boiler.....	1 25
	11345	Locke Regulator Co., Chain for steel plate chimney.....	1 75
	11346	T. E. Healy, Oat meal.....	2 00
	11347	E. J. Morton, Civil engineering.....	3 00
	11348	Lyman Felheim, Wooden plugs.....	3 12
	11349	Hollands Manufacturing Co., Repairs to tools.....	3 48
	11350	H. C. Gross, Wood for fuel.....	4 40
	11351	Central Blacksmith Works, Blacksmithing.....	4 40
	11352	Erie Forge Company, Ltd., Steel pins.....	4 86
	11353	The Dispatch Publishing Company, Advertising for bids on pier work and stone.....	5 50
	11354	Held, Gorenflo & Co., Advertising for bids on pier work and stone.....	5 50
	11355	Mehl & Sapper, Hardware	5 56
	11356	Erie Company, Coke.....	5 68
	11357	Jarecki Manufacturing Co., Fittings.....	5 71
	11358	New York & Penn'a Telephone and Telegraph Co., Rent of telephone.....	6 00
	11359	Pennsylvania Rubber Co., Sheet rubber.....	6 51

October—Continued.

TO PAY VOUCHER.

Date.	No.	Of For	Amount.
	11360	Steiner Manufacturing Works, Repairing drinking fountain	$ 7 53
	11361	Times Publishing Company, Advertising for bids on pier work and stone	8 00
	11362	C. Kessler, Brooms, soap, candles, etc	8 40
	11363	Herald Printing and Publishing Co., Advertising for bids on pier work and stone	8 96
	11364	Ashby Printing Co., Stationery and ink	9 15
	11365	Superior Stamp Co., Dies for coupon cutters	9 30
	11366	H. Hausman, Decorations, account death of Wm. McKinley	10 00
	11367	Union Ice Company, Ice	12 13
	11368	A. S. Pinney, Hardware	14 60
	11369	The Lake Shore & Michigan Southern Ry. Co., Freight on pipe and specials	15 35
	11370	E. J. Riblet, Rent of shop	20 00
	11371	James L. Firman, Teaming	21 67
	11372	The Gem City Mills, Oats	22 50
	11373	Erie Machine Shop, Labor and material	32 97
	11374	Erie Metal Co., Bronze castings	34 14
	11375	American Oil Works, Boiler compound	34 41
	11376	H. C. Dunn, Mgr., Brick	35 75
	11377	Erie Manufacturing and Supply Co., Waste, packing, tools, etc	136 52
	11378	Union Oil Works, Oil	137 40
	11379	Globe Iron Foundry Co., Castings	182 00
	11380	Erie Engine Works, Labor and material	243 13
	11381	Hays Manufacturing Co., Pipe, fittings, specials, etc	258 64
	11382	Union Water Meter Company, Meter	293 00
	11383	The W. L. Scott Company, Fuel	379 92
	11384	R. D. Wood & Co., Fire hydrants and stop valves	721 75
	11385	U. S. Cast Iron Pipe and Foundry Co., Pipe and specials	902 35
	11386	Mayer Bros., Repairing cuts in pavements	14 88
	11387	Geo. C. Gensheimer, Ass't Sec'y, Sundries	23 99
	11388	Michael McMahon, Old rope	24 54

October—Continued.

TO PAY VOUCHER.

Date.	No.	Of For	Amount.
	11389	Holly Manufacturing Company, Material and labor	$ 610 84
	11390	Pay Roll, Street Work, Disbursed by M. L. Whitley, Clerk	669 94
	11391	Fire and Water,	4 50
19	11392	O. C. Thayer & Son, Lime and cement	8 10
	11393	Geo. C. Gensheimer, Ass't Sec'y, Sundries	20 43
	11394	Pay Roll, Street Work, Disbursed by M. L. Whitley, Clerk	552 64
26	11395	Geo. C. Gensheimer, Ass't Sec'y, Sundries	16 15
	11396	George E. Leet, Printed envelopes for 1902	20 75
	11397	Pay Roll, Street Work, Disbursed by M. L. Whitley, Clerk	649 36
	11398	The Lake Shore & Michigan Southern Ry. Co., Freight on pipe and specials	45 20
	11399	The Constable Bros. Co., Timber on piers	1,349 31
		Total	$ 8,566 91

November.

TO PAY VOUCHER.

Date.	No.	Of For	Amount.
1	11400	Clark Olds, Services as Commissioner 2 months	$ 150 00
	11401	G. F Brevillier Services as Commissioner, 2 months	150 00
	11402	Willis B. Durlin, Services as Commissioner, 2 months	150 00
	11403	Pay Roll, Office and Inspectors, Disbursed by Geo. C. Gensheimer, Ass't Sec'y	884 16
	11404	Pay Roll, Pumping Station, Disbursed by Geo. C. Gensheimer, Ass't Sec'y	940 00
2	11405	Geo. C. Gensheimer, Ass't Sec'y, Sundries	15 00
	11406	Pay Roll, Street Work, Disbursed by M. L. Whitley, Clerk	660 23
	11407	John O. Baker, Material and labor	500 00
9	11408	S. G. Ames, Repairs to tool wagon	1 25
	11409	The Electric Equipment Co., Repairs to electric light plant	1 40
	11410	Erie Metal Co. Bronze casting for engine repairs	1 91
	11411	O. C. Thayer & Son, Tile and cement	2 73
	11412	P. J. Wissler, Repairing paved streets	3 32
	11413	U. D. Sweigard, Repairs to galvanized iron pumps	3 42

November—Continued.

TO PAY VOUCHER.

Date.	No.	Of	For	Amount.
	11414	Erie Window Glass Co.,	Ruby glass	$ 3 50
	11415	George L. Siegel,	Rye straw and oil meal	3 92
	11416	Central Blacksmith Works,	Horse shoeing	4 40
	11417	Lyman Felheim,	Wooden plugs	4 44
	11418	Henry Beckman & Sons,	Soap and lye	4 50
	11419	Deming Bros.,	Meter box	4 50
	11420	J. H. Braggins,	Repairs to steam pipe	4 64
	11421	Union Ice Company,	Ice	4 65
	11422	James McCrea & Co.,	Gaskets for steam pipe	4 80
	11423	Murphy Bros.,	Pails, charcoal, etc	5 85
	11424	Keystone Brass Co.,	Sheet copper, brass and labor	6 70
	11425	Erie Hard Wall Plaster Co.,	Cement	7 50
	11426	Erie Company,	Coke	8 79
	11427	G. J. Gebhardt,	Coal for blacksmithing	12 00
	11428	Schluraff Floral Co.,	Palms	12 00
	11429	Wm. Schade,	Blacksmithing and material	12 08
	11430	A. S. Pinney,	Hardware	12 43
	11431	Edison Construction and Supply Department,	Repairs to electric light plant	14 76
	11432	Martin Quigley,	Old rope	15 57
	11433	Jarecki Manufacturing Co.,	Fittings, etc	17 39
	11434	H. C. Dunn, Mgr.,	Brick	19 50
	11435	E. J. Riblet,	Shop Rent	20 00
	11436	Erie Engine Works,	Material and labor	22 45
	11437	Wm. Densmore & Co.,	Oats	22 50
	11438	Thos. Pickering,	Carriage hire	28 00
	11439	Herald Printing and Publishing Co.,	Books and stationery	29 23
	11440	Union Iron Works,	Labor on boilers	32 00
	11441	Erie Machine Shops,	Material and labor	34 70
	11442	South Erie Iron Works,	Meter tops	37 00

November—Continued.

TO PAY VOUCHER.

Date.	No.	Of	For	Amount.
	11443	James L. Firman,	Teaming	$ 38 51
	11444	Thomson Meter Co.,	Repairs to meters	38 78
	11445	Mehl & Sapper,	Hardware	44 22
	11446	Lake City Machine Shop,	Pipe taps	46 50
	11447	Erie Manufacturing and Supply Co.,	Waste, packing, etc	105 46
	11448	Globe Iron Foundry Co.,	Castings	115 86
	11449	Erie Oil Company,	Oil	134 24
	11450	W. P. Mason,	Analyzing water	160 00
	11451	Union Water Meter Co.,	Meters and repairs	221 50
	11452	Hays Manufacturing Co.,	Pipe, fittings, etc	558 08
	11453	The Holly Manufacturing Co.,	Pump valves	607 50
	11454	The W. L. Scott Company,	Coal	817 84
	11455	United States Cast Iron Pipe and Foundry Co.,	Cast iron pipe and specials	1,040 41
	11456	Geo. C. Gensheimer, Ass't Sec'y,	Sundries	26 99
	11457	Pay Roll, Street Work,	Disbursed by M. L. Whitley, Clerk	621 65
16	11458	Alois Bayhurst,	County taxes	1 25
	11459	W. E. Long, Collector,	County taxes	1 88
	11460	Miss Hattie Thayer,	County taxes	2 50
	11461	Geo. C. Gensheimer, Ass't Sec'y,	Sundries	24 90
	11462	John O. Baker,	Material and labor	500 00
	11463	Pay Roll, Street Work,	Disbursed by M. L. Whitley, Clerk	512 92
23	11464	Pay Roll, Street Work,	Disbursed by M. L. Whitley, Clerk	661 14
	11465	Geo. C. Gensheimer, Ass't Sec'y	Sundries	14 05
30	11466	The Adams-Bagnall Electric Co.,	Arc lamp	18 00
	11467	Geo. C. Gensheimer, Ass't Sec'y,	Sundries	18 26
	11468	Pay Roll, Street Work,	Disbursed by M. L. Whitley, clerk	574 31
	11469	Pay Roll, Office and Inspectors,	Disbursed by Geo. C. Gensheimer, Ass't Sec'y	889 16
	11470	Pay Roll, Pumping Station,	Disbursed by Geo. C. Gensheimer, Ass't Sec'y	940 00
	11471	John O. Baker,	Material and labor	200 00
			Total	$ 12,809 13

December.

TO PAY VOUCHER.

Date.	No.	Of For	Amount.
3	11472	National Lead Company, Lead pipe	$ 250 46
7	11473	Geo. C. Gensheimer, Ass't Sec'y, Sundries	17 51
	11474	Pay Roll, Street Work, Disbursed by M. L. Whitley, Clerk	685 66
	11475	Adolphus A. Knudson, Electrical Investigation	400 00
14	11476	J. G. Schlindwein, Repairing harness	1 00
	11477	Edison Construction & Supply Dep't, Repairs to Electric Light Plant	1 20
	11478	Simon Pfister, Galvanized pails	1 30
	11479	R. T. Williams & Co., Repairs to hand basin in office	1 35
	11480	Keystone Brass Co., Sheet brass and brass castings	1 96
	11481	F. A. Douglas, Repairs to electric bells	2 09
	11482	Mayer Bros., Repairing pavements	2 20
	11483	John H. Walker, Stationery	3 00
	11484	Wm. F. Nick, Paints, oils, etc.	3 10
	11485	Erie Steam Bending Works, Stakes	3 25
	11486	Geogre L. Siegel, Straw, etc.	3 38
	11487	The Himrod Engraving Company. Stationery and printing	4 00
	11488	James H. Matthews & Co., Rubber stamps	4 00
	11489	H. C. Gross, Wood	4 40
	11490	The Adams-Bagnall Electric Co., Globes for arc lamps	4 50
	11491	Lyman Felheim, Lumber	4 61
	11492	The Electric Equipment Co. Repairs to Electric Light Plant	4 65
	11493	Holland's Manufacturing Co., Tools and repairs	4 65
	11494	Union Ice Company, Ice	5 15
	11495	Mehl & Sapper, Hardware	5 80
	11496	The Lake Shore & Michigan Southern R'y Co., Freight	6 82
	11497	Wm. Schade, Blacksmithing	7 32
	11498	John Reinhold, Jr., Paints, oils, etc.	7 95
	11499	Herald Printing & Publishing Co., Stationery	8 00
	11500	A. S. Pinney, Hardware	10 06

December—Continued.

TO PAY VOUCHER.

Date.	No.	Of For	Amount.
	11501	Erie Company, Coke	$ 10 82
	11502	Central Blacksmith Works, Blacksmithing	10 90
	11503	Homer M. Hill, Insurance	12 50
	11504	Thomas M. Hemphill, Insurance	12 50
	11505	Walter Scott & Co., Insurance	12 50
	11506	L. J. Van Anden & Co., Insurance	12 50
	11507	American Enameled Brick and Tile Co., Brick	12 65
	11508	Erie Hard Wall Plaster Co., Cement	13 50
	11509	Keystone Electric Company, Repairing electric light plant	17 65
	11510	Ashby Printing Co., Stationery	18 65
	11511	E. J. Riblet, Rent of shop	20 00
	11512	Union Water Meter Company, Repairs to meters	21 25
	11513	The Gem City Mills, Oats	25 00
	11514	R. T. Walker, Rent of barn	30 00
	11515	The Lake Shore & Michigan Southern Ry. Co., Freight	32 60
	11516	Mutual Telephone Company, Rent of telephones	36 00
	11517	H. C. Dunn, Mgr., Brick	37 70
	11518	American Oil Works, Boiler compound	38 61
	11519	The Constable Bros. Company, Repairs at pumping station	40 75
	11520	Erie Engine Works, Repairs to engine	41 81
	11521	The Bristol Company, Recording gauge	55 00
	11522	U. D. Sweigard, Repairs to engine house, etc	69 17
	11523	James L. Firman, Teaming	70 10
	11524	National Lead Company, Wiping solder	132 50
	11525	Union Oil Works, Oil	170 08
	11526	Globe Iron Foundry Co., Castings	259 00
	11527	Erie Manufacturing and Supply Co., Waste, packing, etc	370 58
	11528	Hays Manufacturing Co., Pipe, fittings, etc	515 70
	11529	O. C. Thayer & Son, Stone, fire clay and tile	569 57

December—Continued.

TO PAY VOUCHER.

Date.	No.	Of For	Amount.
	11530	The W. L. Scott Company, Coal	$ 575 12
	11531	United States Cast Iron Pipe and Foundry Co., Cast iron pipe and specials	1,367 85
	11532	R. D. Wood & Co., Stop valves and fire hydrants	3,373 00
	11533	Geo. C. Gensheimer, Ass't Sec'y, Sundries	38 36
	11534	Pay Roll, Street Work, Disbursed by M. L. Whitley, Clerk	546 02
21	11535	Thomas M. Hemphill, Insurance	2 50
	11536	Homer M. Hill, Insurance	2 50
	11537	Walter Scott & Co., Insurance	2 50
	11538	L. J. Van Anden & Co., Insurance	2 50
	11539	S. A. Davenport, Court costs	11 60
	11540	Geo. C. Gensheimer, Ass't Sec'y, Sundries	23 34
	11541	Isador Sobel, Postmaster, Postage stamps	100 00
	11542	Clark Olds, Services as Commissioner, 2 months	150 00
	11543	G. F. Brevillier, Services as Commissioner, 2 months	150 00
	11544	Willis B. Durlin, Services as Commissioner, 2 months	150 00
	11545	Pay Roll, Street Work, Disbursed by M. L Whitley, Clerk	507 89
	11546	Pay Roll, Office and Inspectors, Disbursed by Geo. C. Gensheimer, Ass't Sec'y	889 24
	11547	Pay Roll, Pumping Station, Disbursed by Geo. C. Gensheimer, Ass't Sec'y	940 00
	11548	Joseph Frank, Plans	65 00
28	11549	Geo. C. Gensheimer, Ass't Sec'y, Sundries	15 48
	11550	R. D. Wood & Co., Stop valves	186 00
	11551	Pay Roll, Street Work, Disbursed by M. L. Whitley, Clerk	541 93
	11552	United States Cast Iron Pipe and Foundry Co., Cast iron pipe and specials	598 07
		Total	$ 14,367 86

RECAPITULATION, 1901.

Number Vouchers Issued.	MONTH.	AMOUNTS.
73	January	$ 8,766 05
51	February	4,991 66
49	March	7,628 29
62	April	7,800 29
68	May	12,709 05
63	June	10,704 24
58	July	6,689 01
74	August	14,127 90
60	September	10,050 21
63	October	8,566 91
72	November	12,809 13
81	December	14,367 86
774	Total	$ 119,210 60

DISBURSEMENTS.

DEPARTMENT.	ACCOUNT.		FOR THE YEAR 1901. Labor.	Material.	Total.	From Beginning of Works to December 31, 1901.
Construction.	Advertising Books, S. & P.	a	$ 38	$ 10 55	$ 10 93	$ 702 11
	Boiler No. 1	g	.....	.....	.....	2,335 23
	Boiler No. 2	g	.....	.....	.....	2,335 38
	Boiler No. 3	g	.....	.....	.....	2,335 28
	Boiler No. 4	g	.....	.....	.....	2,335 41
	Boiler No. 5	g	.....	.....	.....	2,312 83
	Boiler No. 6	g	.....	.....	.....	2,312 95
	Boiler No. 7	g	.....	.....	.....	2,313 26
	Boiler No. 8	g	.....	.....	.....	2,324 23
	Boiler House		406 60	679 83	1,086 43	16,912 67
	Buildings and Grounds		.....	.....	.....	95,192 66
	Civil Engineering		.....	.....	.....	8,554 80
	Connections		3,638 72	4,089 06	7,727 78	134,920 60
	Drinking Fountains	d	16 91	117 28	134 19	1,874 86
	Electric Light Plant	a	.....	.....	.....	5,613 64
	Engines and Boilers to December 31, 1901		.....	.....	.....	96,715 79
	Engine No. 4	b	.....	.....	.....	48,441 43
	Engine No. 5	h	.....	.....	.....	33,568 49
	Engine House No. 3	b	.....	.....	.....	21,413 19
	Engine Room Furniture and Fixtures		8 09	222 62	230 71	1,910 26
	Expense	a	77	8 04	8 81	412 09
	Fire Hydrants		317 50	2,948 82	3,266 32	33,226 46
	Fuel	a	9 88	15 36	25 24	310 18
	Gas Well		.....	.....	.....	8,148 59
	High Service System	h	23 20	638 66	661 86	49,429 95
	H. S. S. Stand Pipe No. 2 Iron Work	i	.....	.....	.....	47 02
	H. S. S. Stand Pipe No. 2, Stone Work	i	.....	.....	.....	40 22

Construction.	Horse, Wagon and Cartage		71 84	270 12	341 96	5,793 26
	Intake Pipe, No. 1		.....	.....	.....	49 474 39
	Intake Pipe, No. 2	*b*	.....	.....	.....	140,971 03
	Interest and Discount		.....	.....	.....	99,420 95
	Light, Oil, Lamps, Wicks, Etc	*a*	2 27	62 52	64 79	350 36
	Lowering Mains		29 72	818 19	847 91	5,143 13
	Mains		12,252 42	17,254 56	29,506 98	633,435 07
	Main, 30-inch		.....	.....	.....	75,956 60
	Meters		176 85	1,233 79	1,410 64	24,732 83
	Office Furniture and Fixtures	*a*	11 25	309 63	320 88	2,771 61
	Oil and Tallow	*b*	.....	.....	.....	52 25
	Park Fountains		.....	.....	.....	3,244 68
	Railroad Switch and Scales		.....	.....	.....	2,918 92
	Reservoir		.....	.....	.....	123,150 83
	Shop Rent	*a*	4 36	120 05	124 41	1,265 52
	Steel Plate Chimney No. 1,	*g*	.....	.....	.....	4,177 53
	Stop Valves		349 33	4,354 16	4,703 49	44,831 18
	Superintendent's Stores		.....	.....	.....	217 05
	Telephone and Telegraph	*a*	17	4 79	4 96	29 00
Combine Acc'ts "Tools" and "Tools"—Lathe.	Tools		598 31	1,771 21	2,369 52	8,657 54
	Tools—Coal Elevator and Conveyor	*j*	64 66	1,386 45	1,451 11	1,922 09
	Tools—Lathe	*k*	32 23	19 20	51 43	51 43
	Tools—Meter Prover	*j*	1 63	44 85	46 48	491 80
	Waste and Packing	*g*	26	7 15	7 41	12 61
	Water Lots	*e*	.....	.....	.....	15,987 29
Maintenance.	Advertising, Books, S. & P	*a*	09	2 55	2 64	520 83
	Boilers, to March 5, 1898		.....	.....	.....	24,501 08
	Boiler No. 1	*h*	66 40	141 27	207 67	619 76
	Boiler No. 2	*h*	53 64	144 44	198 08	638 46
	Boiler No. 3	*h*	47 71	102 35	150 06	568 37
	Boiler No. 4	*h*	47 97	112 65	160 62	584 88
	Boiler No. 5	*h*	59 49	133 00	192 49	561 73

a Accounts opened in 1891. *b* Accounts opened in 1892. *c* Accounts opened in 1893. *d* Accounts opened in 1894.
e Accounts opened in 1895. *g* Accounts opened in 1897. *h* Accounts opened in 1898. *i* Accounts opened in 1899.
Accounts opened in 1900. *k* Accounts opened in 1901.

DISBURSEMENTS—Continued.

DEPARTMENT.	ACCOUNT.		FOR THE YEAR 1901. Labor.	Material.	Total.	From Beginning of Works to December 31, 1901.
Maintenance.	Boiler No. 6	h	50 83	$ 99 78	$ 150 61	$ 544 03
	Boiler No. 7	h	51 87	100 64	152 51	503 06
	Boiler No. 8	h	55 20	111 57	166 77	534 45
	Boiler House	h	21 15	158 41	179 56	643 13
	Building and Grounds	a	1,463 36	5,801 61	7,264 97	18,831 01
	Connections		3,013 07	2,010 08	5,023 15	22,913 12
	Drinking Fountains	d	23 89	21 96	45 85	299 15
	Electric Light House	c	8 99	71 04	80 03	3,627 96
	Electric Light Plant	b	12 39	191 66	204 05	1,444 38
	Engines, to December 31, 1892		.....	.....	.....	13,402 04
	Engine No. 1	c	.....	.....	.....	144 73
	Engine No. 2	c	01	40	41	470 65
	Engine No. 3	c	943 68	1,898 81	2,842 49	4,847 91
	Engine No. 4	d	90 23	596 79	687 02	5,471 70
	Engine No. 5	i	57 53	491 71	549 24	1,256 56
	Engine House No. 1	c	2 50	28 19	30 69	1,840 78
	Engine House No. 2	c	40 45	150 89	191 34	8.220 67
	Engine House No. 3	c	58 54	152 43	210 97	2,071 60
	Engine Room, Furniture and Fixtures	a	4 50	123 76	128 26	560 64
	Expense	a	24	6 52	6 76	375 28
	Fire Hydrants	a	242 74	67 99	310 73	3,792 02
	Fuel	a	89	24 39	25 28	264 99
	High Service System	i	13 52	.....	13 52	105 45
	Horse, Wagon and Cartage		67 11	278 42	345 53	5,872 07
	Intake Pipe No. 1	a	.....	.....	.....	165 26
	Intake Pipe No. 2	i	1 90	.....	1 90	33 03
	Light, Oil, Lamps, Wicks, Etc	a	1 61	44 26	45 87	225 96

Maintenance.	Mains and Branches		1,535 98	396 74	1,932 72	26,897 86
	Main, 30-inch	a	.....	.....	.....	910 49
	Meters		134 14	206 40	340 54	6,758 30
	Office Furniture and Fixtures	a	4 64	106 51	111 15	934 83
	Oil and Tallow	b	.....	.....	.....	26 27
	Railroad Switch and Scales	a	1 19	32 89	34 08	1,220 42
	Reservoir		137 92	34 37	172 29	36,167 00
	Shop Rent	a	4 36	120 05	124 41	1,265 28
	Stand Pipe	c	5 34	32 35	37 69	4,290 51
	Steel Plate Chimney No. 1	h	81	.....	81	204 13
	Stop Valves		168 61	148 13	316 74	6,629 96
	Superintendent's Stores		.....	.....	.....	396 52
	Telephone and Telegraph	j	.....	.....	.....	53
	Tools		574 19	1,084 72	1,658 91	10,775 51
	Tools—Coal Elevator and Conveyor	k	37	10 28	10 65	10 65
	Waste and Packing	b	9 53	262 32	271 85	333 68
Operating.	Advertising, Books, S. & P.	a	15 55	427 95	443 50	2,101 41
	Buildings and Grounds	b	1,243 59	.....	1,243 59	12,175 28
	Drinking Fountains	g	114 00	.....	114 00	535 23
	Electric Light	h	65	18 00	18 65	353 84
	Electric Light Plant	b	2 97	81 67	84 64	119 48
	Engineers and Firemen		8,865 73	.....	8,865 73	162,736 93
	Engineers' Stores		.....	.....	.....	2,348 57
	Expense	a	3 31	91 16	94 47	1,233 53
	Fire Hydrants	b	512 47	.....	512 47	2,340 67
	Flushing Sewers	g	6 94	.....	6 94	48 52
	Fuel		327 97	9,028 63	9,356 60	190,511 43
	Horse, Wagon and Cartage	d	.....	.....	.....	54 81
	Inspectors	e	2,561 29	.....	2,561 29	21,973 74
	Insurance		3 09	85 00	88 09	1,693 86
	Light, Oil, Lamps, Wicks, Etc	a	2 10	57 71	59 81	602 43
	Machinist	j	1,243 59	.....	1,243 59	2,353 47

a Accounts opened in 1891. *b* Accounts opened in 1892. *c* Accounts opened in 1893. *d* Accounts opened in 1894.
e Accounts opened in 1895. *g* Accounts opened in 1897. *h* Accounts opened in 1898. *i* Accounts opened in 1899.
j Accounts opened in 1900. *k* Accounts opened in 1901.

DISBURSEMENTS—Continued.

DEPARTMENT.	ACCOUNT.	FOR THE YEAR 1901. Labor.	Material.	Total.	From Beginning of Works to December 31, 1901.
Operating.	Meters	b $ 357 15	$.....	$ 357 15	$ 4,591 06
	Oil and Tallow	64 96	1,788 27	1,853 23	20,266 82
	Rent of Office	b 2 76	76 00	78 76	706 95
	Reservoir	b 497 44	.....	497 44	4,775 14
	Stop Valves	e 12 80	.....	12 80	577 43
	Taxes—U. S., State, County and School	10 78	296 63	307 41	3,298 58
	Telephone and Telegraph	a 7 63	210 00	217 63	1,997 94
	Tools	a.....	.....	.....	946 02
	Turning On and Off Water	g 144 34	.....	144 34	1,238 21
	Waste and Packing	26 31	724 20	750 51	9,595 50
	Water Rent Returned	44	12 19	12 63	1,139 25
Accounting.	Advertising, Books, S. & P	22 61	606 12	628 73	12,236 82
	Expense	1 33	36 57	37 90	14,941 41
	Light, Oil, Lamps, Wicks, Etc	k 05	1 51	1 56	1 56
	Postage	19 88	547 33	567 21	8,062 48
	Salaries	7,949 13	.....	7,949 13	213,883 37
Sundries.	City of Erie, Board of Com. of the Sinking Fund	.....	2,000 00	2,000 00	170,500 00
	City of Erie	.....	.....	.....	19 23
Legal.	Court Costs	42	11 60	12 02	490 42
	Counsel Fees	103 63	.....	103 63	4,380 49
	Damages	j.....	.....	.....	395 63
	Expense	.....	.....	.....	189 02
	Total	$ 51,220 84	$ 67,989 76	$119,210 60	$ 2,919,793 74

a Accounts opened in 1891. *b* Accounts opened in 1892. *c* Accounts opened in 1893. *d* Accounts opened in 1894.
e Accounts opened in 1895. *g* Accounts opened in 1897. *h* Accounts opened in 1898. *i* Accounts opened in 1899.
j Accounts opened in 1900. *k* Accounts opened in 1901.

RECAPITULATION.

DEPARTMENT.	FOR THE YEAR 1901. Pro-Rata.	Labor.	Material.	Total.	From Beginning of Works to December 31, 1901.
Construction	.4563708+	$ 17,944 70	$ 36,386 89	$ 54,404 24	$ 1,821,098 53
Maintenance	.2061973+	9,078 58	15,502 33	24,580 91	223,278 68
Operating	.2426400+	16,027 86	12,897 41	28,925 27	450,316 10
Accounting	.0770445+	7,993 00	1,191 53	9,184 53	249,125 64
Sundries	.0167770+	.....	2,000 00	2,000 00	170,519 23
Legal	.0009701+	104 05	11 60	115 65	5,455 56
Totals	.9999997+	$ 51,148 19	$ 67,989 76	$ 119,210 60	$ 2,919,793 74

Amount of Coal Consumed in Pumping, Gallons of Water Pumped, Average Height Pumped, Cost per Million Gallons, Etc., from First Year Works Were Operated to December 31, 1901.

Year.	Tons Coal Consumed.	Cost Coal from Jan. 1 to Dec. 31.	Grades of Bituminous Coal.	Gallons of Water Pumped.	Increase or Decrease.	Number of places supplied.	No. of Fire Hydrants.	Average height of Water in Reservoir above surface of Bay.	Cost Coal per million gallons raised to Reservoir.	Gallons raised to Reservoir by one pound of Coal.
1868	591 1	$ 309 61	Lump.	.....	.....	.....	.....	.....	.....	.....
1869	544 4	4,818 48	"	.....	.....	.....	.....	.....	.....	.....
1870	1,064 5	5,159 10	"	246,648,960	.....	1,218	97	232 0	.....	.....
1871	1,422 7	7,117 00	"	279,368,495	32,719,535 *i*	1,727	99	232 0	$18 76	98 5
1872	1,308 5	6,528 50	"	395,076,000	115,707,505 *i*	2,140	103	232 0	16 52	150 9
1873	1,672 5	8,412 65	"	384,062,415	11,013,585 *d*	2.475	107	232 0	21 90	114 8
1874	1,759 0	7,709 54	"	444,817,395	60,754,980 *i*	2,663	107	232 0	17 38	126 4
1875	1,836 4	8,657 61	"	531 005,475	86,188,080 *i*	2,700	110	232 0	16 30	145 5
1876	1,105 1	8,925 22	"	670,726,650	139,721,175 *i*	2,763	112	232 0	13 30	159 3
1877	2,456 6	8,509 33	"	660,981,810	9,744,840 *d*	2,854	114	232 0	12 75	135 7
1878	2,463 3	7,945 37	"	682,392,315	21,410,505 *i*	2,915	115	232 0	11 64	136 4
1879	2,628 1	7,428 92	"	807,800,400	125,408,085 *i*	3,011	121	232 0	9 19	153 6
1880	3,076 1	6,978 41	Slack.	775,805,250	31,995,150 *d*	3,568	126	232 0	8 99	126 0
1881	3,430 3	6,517 58	"	975,640,934	219,835,684 *i*	4,110	161	232 0	6 68	142 2
1882	2,968 2	5,355 93	"	829,759,260	145,881,674 *d*	4,687	171	234 0	6 45	139 7
1883	2,398 2	3,908 59	"	815,939,685	13,819,575 *d*	5,077	197	234 7	4 66	170 0
1884	3,010 8	4,502 61	"	917,781,350	101,841,665 *i*	5,395	248	234 3	4 99	152 4
1885	3,243 8	4,575 79	"	1,036,496,665	118,715,315 *i*	5,658	270	232 9	4 40	159 7
1886	3,369 0	4,318 64	"	1,117,389,075	80,892,410 *i*	6,140	280	233 3	3 86	165 8
1887	2,820 4	3,589 31	"	1,218,213,688	100,824,613 *i*	6,368	318	234 1	2 95	216 0
1888	2,392 3	2,545 46	"	1,341,708,002	123,494,314 *i*	6,600	333	234 6	1 89	192 1
1889	2,446 0	2,661 12	"	1,475,358,220	133,650,218 *i*	7,086	346	235 2	1 80	301 5
1890	2,583 6	3,052 89	"	1,659,625,551	184,267,331 *i*	7,728	372	236 9	1 81	322 4
1891	3,120 7	3,941 53	"	1,807,038,580	147,413,029 *i*	8,255	393	237 3	2 18	291 42
1892	3,658 0	4,807 11	"	2,047,993,505	240,954,925 *i*	8,998	415	237 4	2 35	279 43
1893	4,693 5	6,218 95	"	2,333,638,610	285,645,105 *i*	9,687	444	236 5	2 66	248 6
1894	2,960 0	4,423 59	"	1,816,596,518	517,042,092 *d*	10,680	479	236 6	2 43	306 8
1895	3,541 5	4,377 16	"	1,975,396,305	158,797,787 *i*	.....	489	237 2	2 21	278 62
1896	3,056 0	3,603 28	"	2,005,757,728	30,361,423 *i*	0,846	514	237 6	1 796	328 17
1897	3,338 2	4,507 52	Miscel's.	2,215,416,770	209,659,042 *i*	11,385	523	235 9	2 034	331 75
1898	3,119 0	3,815 68	Slack.	2,270,520,528	55,103,758 *i*	1.,739	543	235 6	1 68	363 98
1899	3,819 1	4,633 06	"	2,722,322,604	451,802,076 *i*	11,932	565	235 48	*1 701	356 408
1900	5,285 9	7,754 34	"	3,124,440,644	402,118,040 *i*	12,451	595	235 46	2 318	315 887
1901	5,199 75	8,103 99	"	3,190,024,916	65,584,272 *i*	12,949	632	236 04	2 005	398 878

*HIGH SERVICE SYSTEM comprises all the territory south of Nineteenth street. In this district the average [illegible]

WILLIS B. DURLIN.

COMMISSIONER SINCE 1901.

1901. **BALANCE SHEET.** 1901.

ASSESSED ACCOUNTS.

Ward.	Balance from Dec. 31, 1900.	Assessm'ts.	Additions.	Penalties.	Balance to Jan. 1, 1902.	Totals.	Balance from Dec. 31, 1900.	Deductions.	Cash.	Balance to Jan. 1, 1902.
1	$ 56 29	$ 14,968 49	$ 764 92	$ 77 42	$ 26 77	$ 15,893 89	$ 79 87	$1,737 09	$ 14,023 93	$ 53 00
2	62 16	21,755 73	986 53	71 20	49 30	22,924 92	28 23	777 32	22,017 93	101 44
3	77 82	24,520 21	984 18	84 78	71 46	25,738 45	33 04	1,119 64	24,457 75	128 02
4	59 17	20,322 50	929 73	81 58	58 06	21,451 04	73 34	1,836 95	19,457 96	82 79
5	70 39	10,334 62	685 88	45 46	26 14	11,162 49	24 69	589 71	10,475 34	72 75
6	35 27	11,795 36	591 91	49 68	19 02	12,491 24	14 01	508 56	11,887 83	80 84
7	3 47	1,036 94	158 28	6 84	7 54	1,213 07	1 55	151 09	1,017 58	42 85
Total..	364 57	$104,733 85	$5,101 43	$416 96	$258 29	$110,875 10	$254 73	$6,720 36	$103,338 32	$561 69

METER ACCOUNTS.

1	$ 661 51	$ 3,522 30	$ 2 35	$ 9 59	.....	$ 4,195 75	$.....	$ 43 30	$ 3,311 02	$ 841 43
2	2,934 74	14,969 02	9 02	23 63	82	17,937 23	1 20	28 86	13,760 61	4,146 56
3	1,534 82	6,338 32	37 89	37 48	.....	7,948 51	1 34	9 06	6,336 17	1,601 94
4	403 56	2,005 28	39	20 75	.....	2,429 98	.....	19 09	1,940 54	470 35
5	647 13	2,651 35	30 94	2 93	.....	3,332 35	.....	.....	2,857 20	475 15
6	164 66	802 91	12 06	89	.....	980 52	.....	25 83	825 75	128 94
7	186 57	714 71	31 38	7 18	.....	939 84	.....	.....	728 15	211 69
Total..	$6,532 99	$31,003 89	$124 03	$102 45	82	$37,764 18	$2 54	$126 14	$29,759 44	$7,876 06

SPECIAL PERMITS.

1	.....	$ 10 00	.....	.....	.....	$ 10 00	.....	.....	$ 10 00	.....
2	.....	12 89	.....	.....	.....	12 89	.....	.....	12 89	.....
3	.....	34 28	.....	.....	.....	34 28	.....	.....	34 28	.....
4	.....	34 25	.....	.....	.....	34 25	.....	.....	34 25	.....
5	.....	16 34	.....	.....	.....	16 34	.....	.....	16 34	.....
6	.....	6 00	.....	.....	.....	6 00	.....	.....	6 00	.....
7	.....	19 17	.....	.....	.....	19 17	.....	.....	19 17	.....
Total..	.....	$132 93	.....	.....	.....	$ 132 93	.....	.....	$132 93	.....

BUILDING ACCOUNTS.

1	.....	$ 97 96	.....	.....	.....	$ 97 96	.....	.....	$ 97 96	.....
2	.....	119 94	.....	.....	.....	119 94	.....	.....	119 94	.....
3	.....	120 88	.....	.....	.....	120 88	.....	.....	120 88	.....
4	.....	73 62	.....	.....	.....	73 62	.....	.....	73 62	.....
5	.....	168 63	.....	.....	.....	168 63	.....	.....	168 63	.....
6	.....	51 77	.....	.....	.....	51 77	.....	.....	51 77	.....
7	.....	16 38	.....	.....	.....	16 38	.....	.....	16 38	.....
Total..	.....	$ 649 18	.....	.....	.....	$ 649 18	.....	.....	$ 649 18	.....
Water..	$6,897 56	$136,519 85	$5,225 46	$519 41	$259 11	$149,421 39	$257 27	$6,846 50	$133,879 87	$8,437 75

PLUMBING ACCOUNTS.

1	$50 55	$ 290 07	.....	.....	.....	340 62	.....	.....	$ 295 30	45 32
2	.....	1,738 01	.....	.....	.....	1,738 01	.....	.....	988 57	749 44
3	17 00	719 95	.....	.....	.....	736 95	.....	75	178 29	557 91
4	.....	10 00	.....	.....	.....	10 00	.....	.....	10 00	.....
5	.....	75	.....	.....	.....	75	.....	.....	75	.....
6	6 09	2 00	.....	.....	.....	8 09	.....	.....	5 94	2 15
7	.....	36 85	.....	.....	.....	36 85	.....	.....	30 85	6 00
Total..	$73 64	$2,797 63	.....	.....	.....	2,871 27	.....	75	$1,509 70	$1,360 82
Grand Total	$6,971 20	$139,317 48	$5,225 46	$519 41	$259 11	$152,292 66	$257 27	$6,847 25	$135,389 57	$9,798 57

1901. Statement of Account with the City of Erie, Penna. 1901.

CITY OF ERIE, PENNA.—Dr.						
CASH—Paid Board of Commissioners of the Sinking Fund of the City of Erie				$ 2,000 00		
INTEREST—On balances in Second National Bank, from October 1, 1900, to April 1, 1901	$ 94 53					
Interest on same to December 31, 1901	2 36	$ 96 89				
From April 1, 1901, to October 1, 1901	185 37					
Interest on same to December 31, 1901	2 32	187 69	$ 284 58			
On payment to Board of Commissioners of the Sinking Fund of the City of Erie, Jan 12, 1901, on	2,000 00		77 37	361 95		
WATER—City Hall			266 02			
Engine Houses			230 35			
Fire Hydrants			34,760 00			
Flushing Sewers		130 00				
Settling filling in Sewer Trench		251 75	381 75			
Fountains—Drinking		176 90				
Fountains—Park		1,251 05	1,427 95			
Parks—Central—East	50 00					
Parks—Central—West	50 00	100 00				
Parks—Lakeside—East	17 90					
Parks—Lakeside—West	72 00	89 90	189 90			
Sprinkling State street, bet. Front and Dock		140 80				
Sprinkling Streets by Supt. of Streets		7 29	148 09	37,404 06	$ 39,766 01	
Balance					567,113 73	$606,879 74
CREDITS.						
BALANCE—December 31, 1900					583,915 94	
INTEREST—On same to December 31, 1900					21,763 80	
RENT—Of Offices one year					1,200 00	606,879 74
Balance due the City of Erie, Penna., December 31, 1901					$567,113 73	

1901. **Statement of Resources and Liabilities December 31, 1901.** 1901.

RESOURCES:—PLANT NORTH OF FRONT STREET.—					
Buildings and Grounds including Piers to Intake No. 1		$ 114,432 24			
Boiler House from January 1, 1896		17,176 97			
Engine House No. 3 from January 1, 1892		21,591 35	$ 153,200 56		
Boilers from January 1, 1896		18,881 54			
Engines and Boilers to December 31, 1891		107,309 35			
Engine No. 4 from January 1, 1892		49,147 09			
Engine No. 5 from January 1, 1898		34,031 72	209,369 70		
Electric Light Plant			5,711 28		
Engine Room Furniture and Fixtures			2,067 27		
Tools—Coal Elevator and Conveyor from January 1, 1900			1,947 34		
Including Machine Shop from January 1, 1901			2,448 59		
Meter Prover from January 1, 1900			500 21		
Intake Pipes—No. 1		55,568 44			
No. 2 from January 1, 1892		143,826 35	199,394 79		
Railroad Switch and Scales			3,262 09		
Steel Plate Chimney No. 1 from January 1, 1896			4,245 44		
Water Lots from January 1, 1895			16,151 00	$ 598,298 27	
PLANT SOUTH OF FRONT STREET—					
Connections		143,571 99			
Drinking Fountains from January 1, 1894		1,899 62			
Fire Hydrants		34,840 85			
High Service System from January 1, 1898		50,143 68			
Mains	$ 682,472 43				
Main—30 inch	83,289 35	765,761 78			
Meters		25,509 43			
Stop Valves		47,479 49	1,069,206 84		
Office Furniture and Fixtures			2,816 52		
Reservoir			137,629 35	1,209,652 71	
				1,807,950 98	
PERSONAL—Accounts—Assessed	561 69				
Accounts—Meter	7,886 53	8,448 22			
Accounts—Plumbing		1,363 44	9,811 66		
CASH—In hands of Treasurer, City of Erie			16,559 11	26,370 77	$1,834,321 75
LIABILITIES:—ACCOUNTS—City of Erie, Penna.			567,113 73		
Credits on Assessed		258 29			
Credits on Meter		11 90	269 59	567,382 21	

ASSESSMENTS FOR 1902.

	Wards. First.		Second.		Third.		Fourth.		Fifth.		Sixth.		Seventh.		Totals.	
	No.	Amount	No.	Amount	No.	Amount	No.	Amount	No.	Amount	No.	Amount	No.	Amount	No.	Amount
Air Pumps	10	$ 36 00	27	$ 81 00	23	$ 71 00	11	$ 39 00	9	$ 30 00	7	$ 24 00	....	$.....	87	$ 281 00
Aquariums	....	.....	1	3 00	1	10 00	....	.....	....	.....	....	.....	....	.....	2	13 00
Automobiles	2	4 00	1	2 00	3	6 00	7	14 00	1	2 00	....	.....	....	.....	14	28 00
Bakeries	1	5 00	6	31 24	3	19 56	4	21 24	3	15 00	9	46 24	....	.....	26	138 28
Banks	2	15 00	....	.....	1	10 00	2	10 00	....	.....	....	.....	....	.....	5	35 00
Barber Chairs	24	70 00	37	114 00	53	150 00	27	76 00	18	54 00	19	54 00	....	.....	178	518 00
Bath Tubs	403	1199 50	416	1256 50	860	2549 00	691	1982 00	209	632 00	243	719 50	12	45 00	2834	8383 50
Billiard Tables	6	6 00	16	16 00	21	21 00	8	8 00	6	6 00	3	3 00	....	.....	60	60 00
Blacksmith Fires	3	12 50	7	27 50	11	42 50	7	30 00	4	20 00	2	10 00	....	.....	34	142 50
Boat Houses	2	15 00	....	.....	....	.....	1	10 00	....	.....	....	.....	....	.....	3	25 00
Bonds	5	21 86	7	43 07	4	19 22	8	11 15	7	17 76	10	30 35	8	265 03	49	408 44
Bottling Works	1	5 00	2	16 00	....	.....	....	.....	....	.....	....	.....	....	.....	3	21 00
Bowling Alleys	1	5 00	2	10 00	1	5 00	1	5 00	2	10 00	1	5 00	....	.....	8	40 00
Churches and Sunday Schools	3	3 68	7	11 70	13	23 08	8	16 69	4	6 70	8	14 72	1	2 09	44	78 66
City Parks	4	177 90	....	.....	....	.....	3	192 00	....	.....	....	.....	....	.....	7	369 90
Club Rooms	4	17 00	8	38 00	11	39 00	14	52 00	2	8 00	3	11 00	....	.....	42	165 00
Cows	11	8 25	8	5 00	9	6 75	7	5 25	28	20 50	8	6 00	4	3 76	75	55 51
Eating Houses	3	14 67	9	41 00	20	98 03	12	46 68	3	8 33	6	10 01	....	.....	53	218 72
Elevators	1	120 00	3	10 00	1	60 00	1	6 00	....	.....	....	.....	....	.....	6	196 00
Engine Houses	1	5 00	1	5 00	1	10 00	1	5 00	2	10 00	2	10 00	....	.....	8	45 00
Engine, Gas, Horse Power	40	35 00	38	41 17	50	46 50	59	41 50	11	11 00	25	24 50	....	.....	223	199 67
Engine, Steam, Horse Power	36	47 50	112	207 35	53	77 00	76	60 62	61	76 95	27	60 00	30	53 75	395	583 17
Total Engines, Horse Power	76	82 50	150	248 52	103	123 50	135	102 12	72	87 95	52	84 50	30	53 75	618	782 84
Families	1557	6220 00	2671	10659 99	2073	268 04	1766	7053 35	1399	5585 33	1558	6208 01	100	500 00	11124	44494 72
Fish Hatchery	....	.....	....	.....	....	.....	1	400 00	....	.....	....	.....	....	.....	1	400 00
Fish Markets	1	10 00	1	5 00	....	.....	1	5 00	2	10 00	....	.....	....	.....	5	30 00
Fish Ponds	....	.....	....	.....	....	.....	1	30 00	....	.....	....	.....	....	.....	1	30 00

Fountains	1	625 52			2	8 00	2	640 53	2	16 00							7	1290 05
Fountains, Drinking	2	30 00	2	30 00	1	15 00	2	30 00	2	30 00	1	15 00	2	37 50	12	187 50
Fountain Cuspidors			5	15 00	13	39 00	2	6 00							20	60 00
Freight Houses			1	15 00	1	5 00									2	20 00
Glass Washers					1	18 00									1	18 00
Green Houses							4	10 35	13	16 20	3	2 68	2	5 25	22	34 48
Hand Basins	430	366 63	531	471 32	1087	941 19	850	709 85	145	130 67	222	201 19	14	14 17	3279	2835 02
Heating Boilers, Horse Power	207	45 09	392	74 84	533	97 10	446	111 50	240	49 35	201	23 60	100	31 24	2119	4 2 72
Horses	149	198 00	267	355 00	390	544 00	282	356 00	252	354 00	238	325 00	13	27 50	1591	2159 50
Laundries	1	5 00	3	15 00	3	15 00	2	10 00			1	5 00			10	50 00
Libraries	1	10 00													1	10 00
Lodging Rooms	174	174 00	267	260 83	278	278 00	187	187 00	32	28 00	77	42 49	10	12 50	1025	982 82
Meat Markets	10	42 00	20	110 00	16	86 00	14	57 00	11	54 00	9	48 00			80	397 00
Milk Depots	1	5 00					2	10 00			1	5 00			4	20 00
Offices	83	276 87	91	375 84	85	304 00	62	255 00	3	9 00	5	17 00			329	1237 71
Opera Houses							1	10 00							1	10 00
Pasturizer							1	28 00							1	28 00
Photograph Rooms			3	15 00	5	25 00	1	5 00	1	5 00	2	10 00			12	60 00
Printing Offices	4	40 00	3	15 00	4	35 00	1	5 00							12	95 00
Public Halls	6	30 00	9	40 00	11	60 00	6	30 00	4	20 00	5	21 67			41	201 67
Saloons	12	60 00	40	200 00	24	120 00	19	95 00	11	55 00	8	40 00	1	6 25	115	576 25
Schools, Scholars	1086	97 60	1964	117 07	2211	196 77	710	69 00	1372	121 60	1110	83 73			8453	685 77
Slaughter Houses			1	8 00					4	20 00	2	16 00			7	44 00
Steamer, U. S. Michigan							1	30 00							1	30 00
Stores	58	230 00	163	618 00	196	846 00	89	342 00	43	139 00	46	158 00	1	3 75	596	2336 75
SPRINKLERS: Adjoining Lot	34	99 97	22	68 20	45	136 00	34	103 20	18	49 38	7	22 00	2	6 85	162	485 60
Curb	73	228 68	55	166 00	125	388 45	169	587 14	19	56 00	26	83 28	3	8 81	470	1518 36
Hydrant	38	132 05	55	137 79	49	195 80	85	306 09	35	124 15	49	176 64	4	19 34	315	1091 86
In House	65	215 00	113	367 82	56	181 30	57	189 45	63	214 50	87	286 40	2	9 94	443	1464 41
Lawn	63	166 87	90	249 45	114	374 36	91	311 72	101	231 01	66	209 03	14	69 37	539	1611 81
Sill Cock	531	1380 77	660	1702 76	907	2448 39	722	1914 16	594	1518 17	598	1604 44	50	131 53	4062	10700 22
Total Sprinklers	804	2223 34	995	2692 02	1296	3724 30	1158	3411 76	830	2193 21	833	2381 79	75	245 84	5991	16872 26
Urinals	41	151 30	75	259 17	77	249 16	72	198 34	17	83 67	25	65 83			307	1007 47

ASSESSMENTS FOR 1902—Continued.

	WARDS.																TOTALS.	
	FIRST.		SECOND.		THIRD.		FOURTH.		FIFTH.		SIXTH.		SEVENTH.					
	No.	Amount	No.	Amount	No.	Amount	No.	Amount	No.	Amount	No.	Amount	No.	Amount	No.	Amount	No.	Amount
Wash Tubs	100	138 67	47	66 33	298	417 66	300	420 00	12	18 00	50	59 00	2	3 75	809	1123 41
Wash Tubs, Revolving	3	15 00	1	5 00	2	10 00	4	20 00	....	.....	1	5 00	....	.....	11	55 00
Total Wash Tubs	103	153 67	48	71 33	300	427 66	304	440 00	12	18 00	51	64 00	2	3 75	820	1178 41
Water Closets, Closing	909	2664 87	1329	3981 33	1998	5782 50	1357	3730 00	444	1290 50	555	1643 00	20	70 63	6612	19162 83
Water Closets, Non-Closing	7	52 00	28	78 00	14	87 00	11	66 00	1	6 00	....	.....	....	.....	61	289 00
Total Water Closets	916	2716 87	1357	4059 33	2012	5869 50	1368	3796 00	445	1296 50	555	1643 00	20	70 63	6673	19451 83
Water Motors	....	.....	1	1 67	3	11 34	4	30 00	....	.....	2	3 34	....	.....	10	46 35
Water Troughs	....	.....	4	40 00	3	30 00	2	15 00	8	80 00	2	20 00	....	.....	19	185 00
Work Shops	16	65 00	49	181 50	52	165 00	30	92 00	4	14 00	6	23 00	1	3 75	158	544 25
Yacht	....	.....	....	.....	....	.....	1	3 00	....	.....	....	.....	....	.....	1	3 00
Grand Totals for 1902	6226	15599 75	9671	22665 44	11816	25641 70	8340	21103 81	5222	11256 77	5336	12451 65	396	1331 76	47007	110050 88
Grand Totals for 1901	5860	14917 62	9051	21729 39	11259	24411 99	8091	20041 47	4584	10147 10	4968	11661 58	243	1003 29	44056	103912 44
Total Gain for 1902	366	682 13	620	936 05	557	1229 71	249	1062 34	638	1109 67	368	790 07	153	328 47	2951	6138 44

NEW BOILER HOUSE AND SELF-SUSTAINING STEEL PLATE CHIMNEY.

RATES FOR CITY WATER.

Approved by Select Council, August 19, 1895.—Approved by Common Council, September 16, 1895.—Approved by the Mayor, September 21, 1895.

AND AS AMENDED AND APPROVED NOVEMBER 25, 1899.

Are All Annual Except as Otherwise Indicated, and Payable Quarterly in Advance, as Follows:

Frist Quarter—January, February, March—January 1st.
Second Quarter—April, May, June—April 1st.
Third Quarter—July, August, September—July 1st.
Fourth Quarter—October, November, December—October 1st.

If the rents for any quarter are not paid within the *first month thereof, five per cent.* may be added. If payment is not made by the 15th day of February, May, August and November of each quarter, the water may be turned off from the premises, and shall not be turned on again without the consent of the Commissioners of Water Works, until all back rents and penalties are paid, and the further sum of one ($1.00) dollar.

Acetylene Gas Machines, for each 50 light machine or less....	$ 2 00
Air Pump	3 00
Automobile	2 00
Bath Tub—Private (one family) first tub	3 00
Bath Tub—Private (one family) each additional tub	1 50
Bath Tub—Public, each tub	5 00
Bakery, per barrel of flour used (but no charge less than $5).	01
Barber Shop, first chair, including hand basin	4 00
Barber Shop, each additional chair, including hand basin	2 00
Billiard Tables, each	1 00
Billiard Tables when floor is carpeted, one-half the above rate.	
Blacksmith Fire, first fire	5 00
Blacksmith Fire, each additional fire	2 50
Boarding House, (in addition to family rates) per room	1 00
Building Purposes, per bushel of lime; to be paid for before work is begun	02
Butcher Stalls	3 00 to 15 00
Charitable Institutions, one-third annual rates.	
Cow	75
Condensing Boiler for Steam Heating, (per season of 6 months) per horse power	25
Eating Houses	5 00 to 25 00
Family	4 00
Fire Protection Fixtures, testing same, thirty (30) minutes or less	3 00
Fire Protection Fixtures, testing same, one (1) hour or less, but more than thirty (30) minutes	5 00
Flushing Sewers, settling earth in ditches or purposes of like nature, per hour, or fractional part of an hour, each	5 00
Gas Engines, five horse power or less	5 00
Gas Engines, for each additional horse power	1 00
Gas Engines, when water is used over and over again, from tank prepared for the purpose, one-half the above rates.	

Hand Basins in dwellings, hotels and schools, first basin	$ 1 00
Hand Basins in dwellings, hotels and schools, each additional basin	50
Hand basins in offices, stores and blocks, each	1 00
Hotels, (in addition to family rates) per room	1 00
Laundry, shop	5 00
Laundry, wash tub, stationary, each	2 00
Laundry, revolving washer, each	5 00
Livery Stable, per horse	2 00
Offices	3 00 to 10 00
Private Stable, one or two horses	2 00
Private Stable, each additional horse over two	1 00
Printing Offices	5 00 to 30 00
Public Halls	5 00 to 25 00
Saloons	5 00 to 25 00
School, per pupil (in addition to fixtures)	10
Slaughter Houses	5 00 to 50 00
Sleeping Rooms, each	1 00
Sprinkling Streets or Lawns with Hose, per Season:	
Corner lot, 41 feet front or less	5 00
Inside lot, 41 feet front or less	3 00
For each additional foot front to either corner or inside lot	05
Steam Engines, 10 hours per day, each Horse Power	2 50
Stores	3 00 to 15 00
Urinal, private, self-closing, (one family)	2 00
Urinal, private, not self-closing (one family)	6 00
Urinal, public, self-closing	3 00
Urinal, public, not self-closing	10 00
Urinal, private or public, continuous flow	10 00 to 30 00
Wash Tub, Stationary, first tub (one family)	2 00
Wash Tub, Stationary, each additional tub, (one family)	1 00
Water Closet, pan or tank, (one family) private	3 00
Water Closet, pan or tank, (one family) each additional water closet	1 50
Water Closet, pan or tank, public, each	5 00
Water Closet, hopper, (one family) private, for each water closet	6 00
Water Closet, hopper, public, for each water closet	10 00
Work Shop, ordinary use	3 00 to 5 00

Sprinkling for any purpose will ONLY be allowed on premises where water is taken and paid for, for domestic or other inside use. The sprinkling season is from May 1st to November 1st, in each year.

There is no fractional part of a sprinkling season.

It will cost as much to sprinkle but once at any time during the sprinkling season as it will to sprinkle each day, at the prescribed hours, during the entire season.

Sprinkling must be confined to the hours between 5 and 8 A. M., 12 and 1 P. M. and 5 and 8 P. M., nor during said intervals more than one hour at a time. Persons who exceed one hour may be charged at fountain rates or held liable for violation of the rules, at the option of the Commissioners.

The inside diameter of hose used for sprinkling purposes must not be more than three-quarters of an inch, and the inside diameter of the orifice to the nozzle of the same must not be more than one-quarter of an inch. The use of leaky or defective hose is prohibited.

No person will be allowed to sprinkle adjoining or opposite premises, nor to use the water from any hose attachment, or through any hose for any purpose not authorized by the Commissioners. All sprinkling devices

not held in the hand when used shall be classed as fountains, or fountain jets, and assessed accordingly, *but not less than double sprinkling rates.*

Fountains, fountain jets, etc., will be assessed according to the inside diameter of its principal part or parts, and for a continuous flow during the entire sprinkling season.

Hose must not be used for cleaning streets or street gutters, for washing away collections of leaves, heaps of dirt or offal, or flooding streets.

Sprinkling fixtures, to which hose can be attached, no matter where located on any premises, makes said premises assessable for sprinkling.

All plumbing from the curb line inward must be done by a licensed plumber.

Water fixtures will be assessed for each and every purpose available, and for each family or establishment within the enclosure or separated only by a door, gateway or other means of easy communication.

No abatement of charges shall be allowed for vacancy of premises *except from the date that notice has been given at the office of the Commissioners of Water Works that they are unoccupied.*

The Commissioners may limit or stop the supply of water in cases of emergency, and shut it off for repairs or extensions, they being the judges of the time and necessity. Neither the Commissioners nor the City of Erie shall be liable in damages for any insufficient supply of City water.

For each and every violation of the rules and regulations of the Water Works, the offending party will be subject to a fine of not less than five nor more than fifty dollars.

METER RATES.

Twenty (20) cents for each one thousand (1,000) gallons for the first Twenty-five Thousand (25,000) gallons, and Four (4) cents for each one Thousand (1,000) gallons consumed thereafter during each current quarter.

PROVIDED, The minimum receipts from each meter shall be as follows:

¾ inch or less	$ 3 75	1 inch	$ 4 50
1½ inch	6 25	2 inch	10 00
3 inch	18 75	4 inch	38 75
6 inch	$100 00		

TERMS: All water sold by Meter Measurement must be paid for on or before THE TENTH DAY OF THE FIRST MONTH OF EACH QUARTER. All Meter accounts remaining unpaid at the close of business on the 10th day of said month, shall have Five Per Centum added thereto. On the 15th day of said month, WATER MAY BE TURNED OFF from the property whose meter account is unpaid, and will not be again turned on until all arrearages and penalties are paid, and the further sum of One ($1.00) Dollar.

1901. **STATEMENT OF WORK DONE BY INSPECTOR No. 1.** 1901.

MONTHS.	TURNED OFF ACCOUNT.			TURNED ON ACCOUNT.		NEW HOUSES.		FIXTURES.						TOTALS.
	Unpaid.	Vacancies.	Leaks and Waste.	Paid.	Occupied.	Building Purposes.	Completed.	Complaints.	Frozen.	Installed.	Removed.	Leaks and Waste.	Vacancies.	
January	2	2	2	.....	25	2	15	2	1	81	35	3	.....	170
February	1	1	.....	.....	20	3	7	4	7	120	31	4	311	509
March	.....	4	1	.....	23	2	11	5	6	135	18	5	253	463
April	.....	2	.....	3	45	7	57	3	.....	164	40	2	.....	323
May	.....	3	.....	.....	42	18	58	4	.....	245	45	4	352	771
June	.....	4	.....	.....	25	8	50	4	.....	260	15	3	417	786
July	.....	2	.....	.....	26	10	38	3	.....	232	25	5	105	446
August	.....	2	.....	.....	20	11	31	3	.....	160	20	3	590	840
September	.....	1	.....	.....	17	7	30	3	.....	130	21	3	211	423
October	.....	3	.....	.....	18	12	46	5	.....	120	16	5	.....	225
November	1	2	.....	.....	15	14	17	3	.....	185	8	4	629	878
December	.....	.....	.....	.....	8	5	18	5	4	126	49	6	145	366
Total	4	26	3	3	284	99	378	44	18	1958	323	47	3013	6200

1901. **STATEMENT OF WORK DONE BY INSPECTOR No. 2.** 1901.

MONTHS.	TURNED OFF ACCOUNT.			TURNED ON ACCOUNT.		NEW HOUSES.		FIXTURES.						TOTALS.
	Unpaid.	Vacancies.	Leaks and Waste.	Paid.	Occupied.	Building Purposes.	Completed.	Complaint.	Frozen.	Installed.	Removed.	Leaks and Waste.	Vacancies.	
January														
February						1				16				17
March														
April					3	1				1				5
May	1			1			1			20				23
June								14						14
July														
August										18				18
September														
October														
November										26				26
December				1						23				24
Total	1			2	3	2	1	14		104				127

1901. **STATEMENT OF WORK DONE BY INSPECTOR No. 3.** 1901.

MONTHS.	TURNED OFF ACCOUNT.			TURNED ON ACCOUNT.		NEW HOUSES.			FIXTURES.					TOTALS.
	Unpaid.	Vacancies.	Leaks and Waste.	Paid.	Occupied.	Building Purposes.	Completed.	Complaint.	Frozen.	Installed.	Removed.	Leaks and Waste.	Vacancies.	
January					1					7	1		1	10
February										2				2
March														
April														
May										29				29
June										2				2
July														
August										21				21
September														
October														
November										25				25
December														
Total					1					86	1		1	89

1901. Statement of Work Done at Annual Inspection by Inspector No. 2 1901.

WARD.	ENGINES. Air Pumps	ENGINES. Gas.	ENGINES. Steam.	FIXTURES. Draw Cocks.	FIXTURES. Goose Necks.	FIXTURES. Hydrants.	Hand Basins.	Heating Boilers.	Premises.	SPRINKLERS. Curb.	SPRINKLERS. Hydrant.	SPRINKLERS. Lawn.	SPRINKLERS. Sill Cock.	TUBS. Bath.	TUBS. Wash.	Urinals	WATER CLOSETS. Non-Closing or Hopper.	WATER CLOSETS. Pan or Tank.	TOTAL.
Third	23	5	10	2,808	3	202	1,087	53	2,037	125	49	120	907	860	299	77	14	1,998	10,677
Fourth	11	5	7	2,142	15	284	850	44	1,749	169	85	91	722	691	304	72	12	1,356	8,609
Sixth	7	4	3	1,754	6	166	222	8	1,421	26	49	66	598	243	50	25	....	555	5,203
Seventh	....	....	....	31	....	7	4	1	39	3	1	4	15	4	....	....	....	4	113
Total	41	14	20	6,735	24	659	2,163	106	5,246	323	184	281	2,242	1798	653	174	26	3 913	24,602

1901. Statement of Work Done at Annual Inspection by Inspector No. 3. 1901.

First	10	3	4	1,727	7	152	430	23	1,550	73	38	63	531	403	100	4		909	6,071
Second	27	8	12	2,992	12	295	531	29	2,351	55	55	90	660	416	47	75	28	1,329	9,012
Fifth	9	1	3	1,619	2	98	145	28	1,349	19	35	101	594	209	12	7	1	444	4,686
Seventh	....	....	1	80	....	1	10	6	82	....	3	10	35	8	2		..	16	254
Total	46	12	20	6,418	21	546	1,116	86	5,332	147	131	264	1,820	1036	161	133	36	2,698	20,023

PUMPING STATISTICS FOR 1901.

ENGINES.

MONTHS.	No. 3. GASKILL. 5,000,000 Gallons. SERVICE. HIGH. Days Run.	Gallons.	LOW. Days Run.	Gallons.	TOTAL. Days Run.	Gallons.	No. 4. WORTHINGTON. 12,000,000 Gallons. SERVICE. LOW. Days Run.	Gallons.	No. 5. WORTHINGTON. 8,000,000 Gallons. SERVICE. HIGH. Days Run.	Gallons.	LOW. Days Run.	Gallons.	TOTAL. Days Run.	Gallons.
January	9	21,974 498	....	.....	9	21,974,498	31	199,294,080	23	41,465,160	....	.....	23	41,465,160
February	28	92,517,516	....	.....	28	92,517,516	....	.....	....	.....	28	186,490,656	28	186,490,656
March	31	84,935,760	....	.....	31	84,935,760	....	.....	....	.....	31	214,583,296	31	214,583,296
April	....	.....	8	9,673,654	8	19,673,654	26	163,237,992	21	33,380,952	5	28,048,416	26	61,429,368
May	....	.....	....	.....	....	.....	31	198,549,984	31	41,951,184	....	.....	31	41,951,184
June	....	.....	....	.....	....	.....	30	214,866,552	30	43,349,064	....	.....	30	43,349,064
July	....	.....	....	.....	....	.....	31	233,485,512	31	103,860,240	....	.....	31	103,860,240
August	....	.....	....	.....	....	.....	31	182,200,296	31	83,530,128	....	.....	31	83,530,128
September	....	.....	....	.....	....	.....	30	161,532,864	30	84,099,048	....	.....	30	84,099,048
October	....	.....	....	.....	....	.....	31	167,907,912	31	83,775,912	....	.....	31	83,775,912
November	....	.....	....	.....	....	.....	30	169,570,536	30	69,380,520	....	.....	30	69,380,520
December	....	.....	....	.....	....	.....	31	192,406,224	31	73,956,960	....	.....	31	73,956,960
Total	68	199,427 774	8	19,673,654	76	219 101 4 8	302	1,883,051 952	289	658,749,168	64	429,122,368	353	1,087,871,536
Daily Average	....	546,377	....	53,900	....	600,277	....	5,159,046	....	1,804,792	....	1,175,677	....	2,980,469

PUMPING STATISTICS FOR 1901—Continued.

MONTHS.	ENGINES. TOTALS. SERVICE. HIGH. Days Run.	HIGH. Gallons.	LOW. Days Run.	LOW. Gallons.	TOTAL. Days Run.	TOTAL. Gallons.	DAILY AVERAGE.	AVERAGE LIFT IN FEET. SERVICE. HIGH.	AVERAGE LIFT IN FEET. SERVICE. LOW.
January	32	63 439,658	31	199,294,080	63	262,733,738	8,475,281	291.48	235.35
February	28	92,517,516	28	186,490,656	56	279,008,172	9.964,577	289.77	235.98
March	31	84,935,760	31	214,583,296	62	299,519,056	9,661,905	288.77	235.41
April	21	33,380,952	39	210,960,062	60	244,341,014	8,144,700	275.22	235.67
May	31	41,951,184	31	198,549,984	62	240,501,168	7,758,102	270.89	236.06
June	30	43,349,064	30	214,866,552	60	258,215,616	8,607,187	270.79	237.01
July	31	103,860,240	31	233,485,512	62	337,345,752	10,882,121	278.32	236.59
August	31	83,530,128	31	182,200,296	62	265,730,424	8,571,949	280.61	236.38
September	30	84,099,048	30	161,532,864	60	245,631,912	8,187,730	281.71	236.77
October	31	83,775,912	31	167,907,912	62	251,683,824	8,118,833	281.78	236.98
November	30	69,380,520	30	169,570,536	60	238,951,056	7,965,035	279.78	237.09
December	31	73,956,960	31	192,406,224	62	266,363,184	8,592,360	281.49	237.14
Total	357	858,176,942	374	2,331,847,974	731	3,190,024,916	.....	3,370.61	2,836.43
Daily Average	....	2,351,170	...	6,388,624	....	8,739,794	8,739,794	280.88	236.37

DESCRIPTION OF RESERVOIR, STAND PIPE, BOILER HOUSE, ENGINES AND INTAKE PIPES.

Reservoir.

The reservoir was constructed in 1873 and is about two miles distant from the pumping station, the bottom of which is 210 feet from above the zero level of the water in the bay, and when the water is carried to a depth of 27 feet, holds 32,952,934 gallons of water.

Stand Pipe.

The stand pipe was erected in 1868. It is five feet in diameter and 259.65 feet in height. A spiral staircase surrounds it and all enclosed in brick. So far as we know, this is the tallest stand pipe in the world.

Boiler House.

The boiler house was erected in 1897 and is 74 feet wide, 102 feet long, and 25 feet from floor line to bottom of cords to roof. On the north side eight horizontal tubular boilers are installed in batteries of two each. The boilers are 72 inches in diameter, 18 feet long, without domes, and contain 80 4-inch lap welded tubes, capable of carrying 150 lbs. pressure to the square inch.

On the south side of the house can be erected an equal number of the same size boilers, but until these are required the room is used for storing coal; the bins now in place hold 800 tons of coal.

On the north side of the boiler house, near the east end, is a self-sustaining steel plate chimney, 175 feet high, 75 inches internal diameter, lined with fire-brick to a height of 80 feet. The chimney was erected in 1897.

Engines.

There are five pumping engines.

Nos. 1 and 2 are Cornish Bull Pumps, erected in 1868; alike in their dimensions, which are as follows: Steam cylinders, 60 inches in diameter; Pump Plunger, 20¼ inches in diameter, each 10-foot stroke, capacity being 165 gallons per stroke, pumping 2,000,000 gallons daily. These pumps are out of commission, the cost for repairs being greater than they are worth.

No. 3 is a Gaskill Horizontal Compound Pumping Engine, erected in 1886, having two H. P. Cylinders, 21 inches in diameter, two L. P. Cylinders, 42 inches in diameter, two pumps 19½ inches in diameter, all 36-inch stroke; capacity being 182 gallons per revolution, pumping 5,000,000 gallons daily.

No. 4 is a Worthington Horizontal Compound High Duty Pumping Engine erected in 1893, having two H. P. Cylinders, 33 inches in diameter, two L. P. Cylinders, 66 inches in diameter, two pumps, 29 inches in diameter, all 49¾-inch stroke; capacity being 552 gallons per stroke, pumping 12,000,000 gallons per day, at a piston speed of 128 feet per minute, against a head of 260 feet.

No. 5 is a Worthington Horizontal Compound High Duty Pumping Engine, erected in 1899, having two H. P. Steam Cylinders, each 25 inches

in diameter; two L. P. Cylinders, each 50 inches in diameter, two double acting water plungers, each 23 inches in diameter, all 36-inch stroke; capacity being 264 gallons per stroke, pumping 8,000,000 gallons per day, at a piston speed of 136 feet per minute, against a total load of 142 pounds per square inch (a head of 328 feet).

The regular employees at the pumping works are one chief engineer, one machinist, two assistant engineers, three greasers, three firemen, one assistant fireman, one watchman and keeper of grounds, and one janitor. The chief engineer stands a watch of five hours, from 7 to 12 every forenoon; the assistants divide the remainder of each day equally between them.

Intake Pipes.

There are two intakes, one constructed in 1868, of which 52 feet is brick 14 feet in diameter, 590 feet is wood 4¼ feet in diameter, and 333 feet is boiler iron 4 feet in diameter, making a total length of 975 feet. The top of the outer end of this intake is four feet below the zero level of the bay, and as it approaches the shore ascends until the top is only two feet above the zero level of the bay. *This intake has not been used since the new one was completed, and as the part made of wood has not been submerged for some time it is undoubtedly past use.*

The second intake was completed in 1896. It is made of cast iron, 60 inches internal diameter, 8,307.18 feet long, buried in the bottom of the bay; at no place is there less than three feet of earth over its top. The outer end terminates in an octagonal crib, 40 feet being its extreme width, and 8 feet high, the top being 13 feet below the zero level of the bay. So far as we know, this is the longest single piece of submerged 60-inch cast iron pipe in the world.

RESERVOIR.

FIRE HYDRANTS PLACED IN 1901.

STREET.	LOCATION.	SIZE.	STYLE.	REMARKS.
Pumping Station..	76[6] feet East of Engine House No. 1 29[3] feet North of " " " 2	4-inch..	Matthew's.....	
Fifth.....	12 feet East of Parade.....	4-inch..	"	In place of 4-inch Matthew's. 5 feet 6 inches east of Parade.
East Lake Road...	5 feet East of Penna. Ave.....	6-inch..	"	
North Park Row..	5 feet East of State.....	6-inch..	"	
North Park Row..	157 feet West of French.....	6-inch..	"	In place of 4-inch Matthew's.
Seventh.....	251 feet East of Hess Ave.....	4-inch..	"	
Tenth.....	5 feet East of Cranberry.....	6-inch..	"	In place of 6-inch Matthew's. 177 feet East of Cranberry.
Twelfth.....	496[5] feet East of Hess Ave.....	6-inch..	"	
Fifteenth.....	174[5] feet East of Reed.....	6-inch..	"	
Sixteenth.....	5 feet East of Peach.....	6-inch..	"	
"	5 feet East of Myrtle.....	6-inch..	"	
"	10 feet East of Chestnut.....	6-inch..	"	
"	330[6] feet East of French.....	6-inch..	"	
"	330[6] feet East of Holland.....	6-inch..	"	
Eighteenth.....	8 inches East of West Line of Cherry.....	6-inch..	"	In place of 4-inch Matthew's.
Nineteenth.....	5 feet East of Reed.....	6-inch..	"	
"	482[3] feet East of Parade.....	6-inch..	"	In place of 6-inch Matthew's. 399[6] feet East of Parade.
"	5 feet West of Wallace.....	6-inch..	"	In place of 6-inch Matthew's. 150 feet West of Wallace.
Twenty-first.....	5 feet East of German.....	6-inch..	"	In place of 4-inch Matthew's.
"	5 feet East of French.....	6-inch..	"	In place of 4-inch Matthew's.
"	6[6] feet East of State.....	6-inch..	"	In place of 4-inch Matthew's.
East Buffalo Road.	700 feet East of City Line.....	6-inch..	"	
Twenty-third.....	366 feet West of Plum.....	6-inch..	"	
Twenty-fifth.....	72[4] feet West of Holland.....	.....	.....	4-inch Matthew's. On property of Fred. Koehler & Co., taken out.
"	279[3] feet East of Wayne.....	4-inch..	Matthew's.....	
Twenty-sixth.....	18[6] feet East of Cherry.....	6-inch..	"	In place of 4-inch Bay State.
Twenty-seventh...	322[6] feet West of Plum.....	4-inch..	"	
Wayne.....	112 feet South of Thirteenth.....	6-inch..	"	
Ash.....	501 feet North of Eighteenth.....	4-inch..	"	

Wallace	5 feet South of Twentieth	4-inch	Matthew's	
Parade	5 feet South of Twelfth	6-inch	"	
"	5 feet South of Thirteenth	6-inch	"	
"	5 feet South of Fifteenth	6-inch	"	
German	4 feet North of Twentieth	6-inch	"	
"	2 feet South of Third	6-inch	"	In place of 4-inch Matthew's.
French	72[9] feet North of Sixth	6-inch	"	In place of 4-inch Matthew's.
State	9 feet South of Fourth	6-inch	"	
"	242[4] feet South of Fourteenth	6-inch	"	
"	5 feet South of Third	6-inch	"	
"	9 feet South of Fifth	6-inch	"	In place of 6-inch Matthew's. 5 feet South of Fifth Street.
Peach	feet South of Goodrich	6-inch	"	In place of 4-inch Bay State.
"	30[9] feet South of Twenty-sixth	6-inch	"	
"	5 feet North of Thirteenth	6-inch	"	
"	1 feet North of Fourth	6-inch	"	
"	5 feet North of Fifth	6-inch	"	
"	24 feet South of Sixth	6-inch	"	In place of 4-inch Matthew's. 118 feet North of South Park.
"	801 feet South of City Line	4-inch	"	
"	20 feet South of Twenty-fifth	6-inch	"	In place of 4-inch Bay State. 8[8] feet South of Twenty-fifth.
Poplar	38 feet South of Fourth	6-inch	"	In place of 6-inch Matthew's. 98 feet South of Fourth.
"	5 feet North of Third	4-inch	"	In place of 4-inch old Bay State. 97 feet North of Third.
Liberty	165 feet South of Eleventh	6-inch	"	
Plum	191 feet North of Second	4-inch	"	
Raspberry	180[5] feet South of Twenty-seventh	6-inch	"	
Reservoir	313[6] feet South of Twenty-sixth	4-inch	"	
Horton	334 feet South of Orchard	6-inch	"	
Orchard	18[4] feet North of Horton	6-inch	"	
"	200 feet North of Eliot	6-inch	"	

N. B.—One 1½-inch Hays Cart Sprinkler Hydrant Set N. W. Corner 7th and Cherry Streets.

SUMMARY OF
FIRE HYDRANTS PLACED AND REMOVED IN 1901.

Placed.

STYLE.—	SIZE.	NUMBER.	
Matthew's	4-inch.	11	
Matthew's	6-inch.	45	56

Removed.

STYLE—			
Matthew's	4-inch.	10	
Matthew's	6-inch.	5	
Bay State	4-inch.	4	19
Net Increase			37
Number in use December 31, 1900			595
Total in use December 31, 1901			632

STOP VALVES PLACED IN 1901.

STREET.	WHERE LOCATED.	SIZE.	STYLE.	REMARKS.
Pumping Station..	10³ ft. West of Boiler House 3⁴ ft. South of North line of Boiler House	4-inch..	Eddy	
Second	West line of Liberty	4-inch..	"	
Third	8 ft. West of Holland			4-inch Eddy taken out.
"	7² ft. East of Holland			4-inch Eddy taken out.
"	East line of German	6-inch..	Eddy	In place of 4-inch Eddy.
"	18 ft. West of East Line of State 11⁶ ft. South of Third	2-inch..	Hays	
Fourth	West line of State	6-inch..	Eddy	
"	West line of Peach	6-inch..	"	
Fifth	278⁶ ft. East of German	6-inch..	"	On 20-inch Blow Off.
"	West line of Parade	20-inch..	"	
"	7 ft. East of Parade	6-inch..	"	In place of 6-inch Eddy on East line of Parade.
East Lake Road...	West line of Penna. Ave.	6-inch..	"	
" "	East line of Penna. Ave.	6-inch..	"	
North Park Place..	East line of Peach	6-inch..	"	
" "	129 ft. West of East line of Peach 29 ft. South of North Park Row			6-inch Eddy taken out.
" "	West line of French	6-inch..	Eddy	
Sixth	West line of Peach	4-inch..	"	In place of 4-inch Ludlow.
"	East line of French	6-inch..	"	
South Park Place..	East line of Peach	6-inch..	"	
" "	East line of State	6-inch..	"	
" "	West line of French	6-inch..	"	
Seventh	East line of Hess Ave.	6-inch..	"	
Ninth	West line of State	8-inch..	"	In place of 4-inch Eddy.
"	East line of Peach	8-inch..	"	In place of 4-inch Eddy.
Tenth	West line of Brandes	6-inch..	"	
"	East line of Penna. Ave.	6-inch..	"	

STOP VALVES PLACED IN 1901—Continued.

STREET.	WHERE LOCATED.	SIZE.	STYLE.	REMARKS.
Eleventh	East line of State	6-inch.	Eddy	
Twelfth	East line of Hess Ave.	6-inch.	"	
"	14⁶ ft. East of Chestnut	12-inch.	"	
"	9⁶ ft. East of Chestnut 33⁶ ft. South of North line of Twelfth	6-inch.	"	
Sixteenth	East line of Myrtle	6-inch.	Eddy	
Nineteenth	West line of Wallace	6-inch.	"	
"	East line of Ash	6-inch.	"	
"	West line of Reed	6-inch.	"	
"	East line of Reed	6-inch.	"	
Twentieth	West line of Peach	6-inch.	"	In place of 4-inch Eddy.
"	East line of Sassafras	4-inch.	"	
Twenty-first	East line of French	12-inch.	"	
"	West line of German	12-inch.	"	
Buffalo Road	West line of Elm	6-inch.	"	
Twenty-second	West line of Parade	6-inch.	"	
Twenty-third	West line of Plum	6-inch.	"	
Twenty-fifth	East line of Wayne	6-inch.	"	
Twenty-seventh	West line of Plum	6-inch.	"	
Penna. Ave.	North line of Tenth	6-inch.	"	
Ash	South line of Sixth	6-inch.	"	
"	South line of Fifteenth	6-inch.	"	
"	North line of Eighteenth	6-inch.	"	
"	North line of Twenty-third	6-inch.	"	
Wallace	South line of Eighteenth	6-inch.	"	In place of 1¼-inch Hays.
Cedar	South line of Seventh	6-inch.	"	7 ft. South of Eighteenth Street.
Parade	North line of Thirteenth	4 inch.	"	
"	South line of Fourteenth	4-inch.	"	
"	South line of Fifteenth	4-inch.	"	
"	South line of Twelfth	12-inch.	"	
"	South line of Thirteenth	12-inch.	"	

Parade	North line of Fourteenth	12-inch.	Eddy	
"	South line of Fifteenth	12-inch.	"	
German	North line of Twenty-first	6-inch.	"	
"	South line of Third			4-inch Eddy taken out.
"	North line of Fourth			4-inch Ludlow taken out.
"	South line of Fourth			4-inch Ludlow taken out.
"	South line of Fifth	6-inch.	Eddy	
"	North line of Third	6-inch.	"	In place of 4-inch Eddy.
French	North line of North Park Place	6-inch.	"	In place of 4-inch Eddy.
"	North line of Eleventh	6-inch.	"	
"	South line of Eleventh	6-inch.	"	
State	North line of Fifth	6-inch.	"	
"	South line of Fourt	6-inch.	"	
"	South line of Fifth	6-inch.	"	
Peach	North line of Twenty-seventh	6-inch.	"	
"	North line of Goodrich	6-inch.	"	
"	South line of Twenty-sixth	6-inch.	"	In place of 4-inch Eddy.
"	South line of Fourteenth	6 inch.	"	
"	South line of Third	12-inch.	"	In place of 4-inch Eddy.
"	North line of Fourth			4-inch Eddy taken out.
"	South line of Fourth			6-inch Eddy taken out.
"	South line of Fifth	12-inch.	Eddy	
"	North line of Seventh	12-inch	"	In place of 6-inch Eddy,
"	South line of Seventh	12-inch.	"	
"	24 ft. North of South line of Seventh 21 ft. West of East line of Peach			12-inch Ludlow taken out.
"	402 ft. South of City Line	6-inch.	Eddy	
Myrtle	North line of Twenty-seventh	6-inch.	"	
"	West line of Peach	6-inch.	"	
Reservoir	South line of Twenty-sixth	6-inch.	"	
Orchard	East line of Peach	6-inch.	"	
"	South line of Horton	6-inch.	"	
Horton	East line of Orchard	6-inch.	"	
Scott	East line of Myrtle	6-inch.	"	

STATEMENT OF STOP VALVES.

	STYLE.	SIZE IN INCHES. ¾	1	1¼	1½	2	4	6	8	12	20	24	30	48	TOTAL.	
	Bostow										1		1		2	
	Curtis							2							2	
	Eddy						347	612	10	85	10	1	5	2	1072	
	Jarecki & Hays	12	8	1	10	31									62	
	Ludlow						90	50		4	11				155	
	Pratt & Cady							1	4	3					8	
Total Number Stop Valves placed to December 31, 1900	Total	12	8	1	10	31	437	655	14	92	22	1	6	2		1301
	Eddy						7	58	2	11	1				79	
	Hays					1									1	
Total Number Stop Valves placed during 1901	Total					1	7	58	2	11	1					80
Total Number Stop Valves placed to December 31, 1901	Total	12	8	1	10	32	444	723	16	103	23	1	6	2		1381
	Eddy						12	4							16	
	Hays			1											1	
	Ludlow						3			1					4	
Total Number Stop Valves removed during 1901	Total			1			15	4		1						21
Total Number Stop Valves in use December 31, 1901	Total	12	8		10	32	429	719	16	102	23	1	6	2		1360

MAIN PIPE LAID IN 1901.

STREET.	LOCATION.	SIZES. ¾ in. Ft. In.	1 in. Ft. In.	1½ in. Ft. In.	2 in. Ft. In.	4 in. Ft. In.	6 in. Ft. In.	8 in. Ft. In.	12 in. Ft. In.	20 in. Ft. In.	REMARKS.
West Front....	At Water Works Pumping Station					16 3					Hydrant Branch.
	Pumping Station					194 3					In Boiler House.
Second	From Liberty to Plum					424					
Third.....	Intersection of German									27 6	In place of 27⁶ ft. of 4 in. taken up.
	From main on State eastwardly			89 5	78 5						
Fifth.....	From German to Parade									780 6	In place of 272 ft. of 6 in. taken out.
	12 ft. East of Parade					12					Hydrant Branch. In place of 12 ft. 4 in. H. B. taken out 5 ft. East of Parade.
	278 ft. East of German						1 6				Blow Off for 20 in. main.
	From Holland eastwardly						330				In place of 330 ft. 4 in. taken up.
	Intersection of Peach						48				In place of 48 ft. 4 in. taken up.
East Lake Road	From 181 ft. East of East Ave. eastwardly						1374 6				
	5 ft. East of Penn'a Ave.						10				Hydrant Branch.
N. Park Place..	From 70 ft. West of French eastwardly						105				In place of 105 ft. 6 in. taken up, being out of line.
	157 ft. West of French						6 4				Hydrant Branch. In place of 6 4/12 ft. 4 in. H. B. taken up.
	5 ft. East of State						6 4				Hydrant Branch.

MAIN PIPE LAID IN 1901—Continued.

STREET.	LOCATION.	SIZES.														REMARKS.
		¾ in.		1 in.		1½ in.		2 in.		4 in.		6 in.		8 in.		12 in.		20 in.		
		Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	
Sixth	From 39 ft. East, west line of Peach northwestwardly											34								In place of 34 ft. 4 in. taken up in line of main for West 6th st.
S. Park Place	From State to French											393	6							
Park Ave. South	From 143 ft. West of Poplar westwardly											48	6							
Seventh	From 92[9] ft. West of Payne Ave. westwardly			171																
	251 ft. East of Hess Ave									10										Hydrant Branch.
	From Hess Ave eastwardly											272								
Eighth	From 452[6] ft. East of Payne Ave. eastwardly							44	6											
Ninth	From Peach to State													361						In place of 361 ft. 4 in. taken up.
	Intersection of Peach											34	2							In place of 34[2] ft. 4 in. taken up.
Tenth	From Penn'a to Hess Ave											1009								
	From 177 ft. East of Cranberry westwardly											173	8							
	5 ft. East of Cranberry											6	8							Hydrant Branch. In place of 9[6] ft. 6 in. H. B. taken up, 177 ft. East of Cranberry.
Eleventh	From State to French											370								
Twelfth	From Hess Ave. eastwardly											514	5							
	496[6] ft. East of Hess Ave											10								Hydrant Branch.
	9[6] ft. East of Chestnut											17								Blow Off from 12 in. to 20 in. mains.

Fifteenth.....	From 108 ft. East of Reed eastwardly			66		
	174[5] ft. East of Reed			10		Hydrant Branch.
Sixteenth.....	330[6] ft. East of Holland			6		Hydrant Branch.
	330[6] ft. East of French			25		Hydrant Branch.
	From Myrtle eastwardly			348		In place of 348 ft. 4 in. taken up.
	5 ft. East of Myrtle			8		Hydrant Branch.
	5 ft. East of Peach			7	5	Hydrant Branch.
	10 ft. East of Chestnut			8		Hydrant Branch.
Nineteenth	From 399[6] ft. East of Parade to Wallace			271	3	
	5 ft. West of Wallace			9		Hydrant Branch. In place of 9 ft. 6 in. H. B. 399[6] taken up.
	5 ft. East of Reed			10		Hydrant Branch.
	From line of main on Ash eastwardly			728		
Twentieth.....	From West line of Peach eastwardly			51		In place of 45 ft. 4 in. taken up.
Buffalo Road...	From 229 ft. East of Brandes eastwardly to city line			100		
	From city line eastwardly			1700		
	1700 ft. East of city line			10	6	Hydrant Branch.
	76 ft. West of Camphausen Rd.	16				Extension to Drinking Fountain.
Twenty-first.. .	6[6] ft. East of State			7		Hydrant Branch. In place of 8 ft. 4 in. H. B. taken up.
	5 ft. East of French			7		Hydrant Branch. In place of 9[6] ft. 4 in. H. B. taken up.
	5 ft. East of German			6		
Twenty-second.	Intersection of Peach		57			
	254 ft. East of German eastw'y			473		

MAIN PIPE LAID IN 1901—Continued.

STREET.	LOCATION.	SIZES. ¾ in. Ft. In.	1 in. Ft. In.	1½ in. Ft. In.	2 in. Ft. In.	4 in. Ft. In.	6 in. Ft. In.	8 in. Ft. In.	12 in. Ft. In.	20 in. Ft. In.	REMARKS.
Twenty-second.	Between Cherry and Poplar						145				
Twenty-third	From Plum eastwardly						375				
	336 ft. West of Plum						9 9				Hydrant Branch.
Twenty-fifth	279[3] ft. East of Wayne					9					Hydrant Branch.
	From line of main on Wayne eastwardly						297 3				
Twenty-sixth	18[6] ft. east of Cherry						7 10				Hydrant Branch. In place of 7[10] ft. 4 in. H. B. taken up.
Twenty-seventh	From main on Plum westw'y						361 6				
	322[6] ft. West of Plum					9					Hydrant Branch.
Twenty-eighth	From main on Peach westw'y						57				Acc't street paving.
Penn'a Ave	From main on 10th northw'y						394				
Perry	From 120 ft. South of Seventh northwardly			9 2							
Wayne	112 ft. South of 13th						10 2				Hydrant Branch.
Ash	501 ft. North of 18th						5				Hydrant Branch.
	From main on 15th to 18th						1139				
	From 6th to 7th						348				
	From 24 ft. South of 22nd to 23d						267				
Wallace	From 18th to 19th						289 4				In place of 140 ft. 1¼ taken up.
	5 ft. South of 20th					10					Hydrant Branch.
	From 198 ft. North of 21st northwardly						67				
Parade	5 ft. South of 12th						12				Hydrant Branch.
	5 ft. South of 13th						12				Hydrant Branch.
	5 ft. South of 15th						12				Hydrant Branch.

Parade	From line of main on 12th southwardly			1032	
Cedar	From 125 ft. North of 8th northwardly	244			
German	4 ft. North of south line of 20th	8 6			Hydrant Branch.
	From main on 21st to 20th	296 6			
	From 3d to 5th			780	In place of 642 ft. 4 in. taken up.
	2 ft. South of 3d	9			Hydrant Branch. In place of 9 ft. 4 in. H. B. taken up.
French	72 9/12 ft. North of 6th	9 6			Hydrant Branch. In place of 9 6 ft. 4 in. H. B. taken up.
	From North line of 11th southwardly	60			In place of 60 ft. 4 in. taken up.
	From North Park Place to 6th	197			In place of 197 ft. 4 in. taken up.
State	242 4 ft. South of 14th	7 9			Hydrant Branch.
	9 ft. South of 4th	10			Hydrant Branch. In place of 10 ft. 4 in. H. B. taken up.
	9 ft. South of 5th	10			Hydrant Branch. In place of 10 ft. 4 in. H. B. taken up.
	5 ft. South of 3d	10			Hydrant Branch. In place of 10 ft. 4 in. H. B. taken up.
Peach	From line of main on 3d to 7th			1600	In place of 1210 ft. 6 in. and 390 ft. 4 in. taken up.
	341 ft. South of city line southwardly	460			
	11 ft. North of 4th	8 5			Hydrant Branch.
	5 ft. North of 5th	8 6			Hydrant Branch.

MAIN PIPE LAID IN 1901—Continued.

STREET.	LOCATION.	SIZES. ¾ in. Ft. In.	1 in. Ft. In.	1½ in. Ft. In.	2 in. Ft. In.	4 in. Ft. In.	6 in. Ft. In.	8 in. Ft. In.	12 in. Ft. In.	20 in. Ft. In.	REMARKS.
Peach	118 ft. North of south line of Park										34 ft. 4 in. Hydrant Branch taken up.
	30 ft. S. of north line of 6th, 15 ft. E. of west line Peach northwardly						6				Hydrant Branch.
	35 ft. S. of north line of 6th, 21 ft. W. of east line Peach northeastwardly						12				In place of 12 ft. 4 in. taken up, For main for W. Park fountain.
	801 ft. South of city line					10					Hydrant Branch.
	88 ft. South of north line 25th						6				Hydrant Branch. In place of 6 ft. 4 in. H. B. taken up.
	11 ft. South of Goodrich						10 10				Hydrant Branch. In place of 10 10/12 ft. 4 in. H. B. taken up.
	309 ft. South of 26th						40				Hydrant Branch.
	From line of main on 26th southwardly						912				In place of 912 ft. 4 in. taken up.
	5 ft. North of 13th						7 9				Hydrant Branch.
Myrtle	From 528 ft. South of 26th southwardly						174 6				
	280 ft. South of 27th southw'y						330				
Poplar	98 ft. South of 4th northwardly						60				
	38 ft. South of 4th						9				Hydrant Branch. In place of 9 ft. 4 in. H. B. taken up, 98 ft. South of 4th.

Poplar	5 ft. North of 3d								9 6				Hydrant Branch.
	97 ft. North of 3d southwardly								92				
Liberty	From main on 11th southw'y								204				
	165 ft. South of 11th								3				Hydrant Branch.
	Between 10th and 11th		17										
Plum	191 ft. North of 2nd							10					Hydrant Branch.
	From main on 2nd northw'y							212					
	From 5 ft. South of 25th northwardly								84				
Raspberry	From 66 ft. South of 27th southwardly								114 5				
	180 ft. South of 27th								9				Hydrant Branch.
Goodrich	From line of main on Peach westwardly								51 6				
Orchard	From line of main on Peach Eastwardly								824				
	18⁴ ft. North of Horton								9				Hydrant Branch.
	200 ft. North of Eliot								9				Hydrant Branch.
Horton	From line of main on Orchard southwardly								334				
	334 ft. South of Orchard								9				Hydrant Branch.
Reservoir	From line of main on 26th southwardly								352 6				
	313⁶ ft. South of 26th							104					
	Total	16	188	98 7	122 11	932 5	17436 9		361	2632	1588		

N. B.—In addition 490 ft. 6 in. pipe was laid on the property of the Lovell Manufacturing Co.

SUMMARY OF
PIPE LAID AND REMOVED IN 1901.

Pipe Laid—	Feet.	In.		Feet.	In.
¾-inch....	16				
1 -inch....	188				
1⅛-inch....	98	7			
2 -inch....	122	11			
4 -inch....	932	5			
6 -inch....	17,436	9			
8 -inch....	361				
12 -inch....	2,632				
20 -inch....	1,588		Total,	23,375	8

Pipe Removed—							
1¼-inch....	140						
4 -inch....	3,592	2					
6 -inch....	1,605	6	Total,	5,337	8	Net Total,	18,038
				Or 3 miles.			2,198
			Reported December 31, 1900....107 miles.				1,104 5
			Total December 31, 1901....110 miles.				3,302 5

CROSSES PLACED IN 1901.

Size.	Number.	
6 x 6-inch	12	
12 x 6-inch	6	
12 x 8-inch	1	
12 x 12-inch	1	
20 x 6-inch	3	
20 x 12-inch	2	25

REMOVED IN 1901.

Size.	Number.	
4 x 4-inch	2	
6 x 4-inch	4	
6 x 6-inch	5	
12 x 4-inch	1	
12 x 12-inch	1	13
Net increase		12

TEES PLACED IN 1901.

Size.	Number.	
4 x 4-inch	2	
6 x 4-inch	2	
6 x 6-inch	34	
12 x 6-inch	9	
20 x 6-inch	2	49

REMOVED IN 1901.

Size.	Number.	
4 x 4-inch	2	
6 x 4-inch	10	
6 x 6-inch	3	5
Net increase		34

CONNECTIONS MADE IN 1901.

WARD.	¾ Inch.			1 Inch.			1½ Inch.			2 Inch.			3 Inch.			4 Inch.			6 Inch.			TOTAL.		
	No.	Feet.	In.	No.	Ft.	In.	No.	Ft.	In.	No.	Ft.	In.	No.	Ft.	In.	No.	Ft.	In.	No.	Ft.	In.	No.	Ft.	In.
First	88	1412		2	145		1	40	6	6	119	6							1	25		98	1742	
Second	29	644	1	5	150	6				3	98								2	18	9	39	911	4
Third	85	1696	10	4	96		1	27		4	41	9										94	1861	7
Fourth	61	1001	3	6	49	8	1	3	6													68	1054	5
Fifth	157	2512	8				1	8		1	11	9				1	28					160	2560	5
Sixth	87	2080	6	2	18					1	8											90	2106	6
Seventh	29	467	5	2	10					1	18					1	17					33	512	5
Total	536	9814	9	21	469	2	4	79		16	297					2	45		3	43	9	582	10748	8

CONNECTIONS TAKEN OUT IN 1901.

First	11	177	4							1	1					1	28					13	206	4
Second	3	74		1	7																	4	81	
Third	13	128	4	1	1	6																14	129	10
Fourth	6	73	1																			6	73	1
Fifth	11	194	8				1	4														12	198	8
Sixth	2	3	1																			2	3	1
Seventh																								
Total	46	650	6	2	8	6	1	4		1	1					1	28					51	692	
Net Increase	490	9164	3	19	460	8	3	75		15	296					1	17		3	43	9	531	10056	8

CONNECTIONS RENEWED AND ALTERED IN 1901.

	Gain in Service Pipe.			Loss in Service Pipe.		
		Ft.	In.		Ft.	In.
First	35	95	11		80	6
Second	24	12	6		569	8
Third	123	872	2		115	3
Fourth	43	153	5		75	
Fifth	42	100	8		18	2
Sixth	49	959	6		30	11
Total	316	2194	2		889	6

	Ft.	In.	Ft.	In.
Net increase in service pipe in 1901	10056	8		
Net increase of service pipe, altering 316 cons.	13	4	8	
Net increase of service pipe in 1901			11361	4
Service pipe in use Dec. 31, 1900	43 Miles		3846	1
Service pipe in use Dec. 31, 1901	45 Miles		4647	5

STATEMENT OF CONNECTIONS MADE TO DECEMBER 31, 1901.

WARD.	IN PAVED STREETS NOT IN USE.						IN USE.									TOTAL.									
	SIZE IN INCHES.						SIZE IN INCHES.									SIZE IN INCHES.									
	¾	1	1½	2	4	Total.	¾	1	1¼	1½	2	2½	3	4	6	Total.	¾	1	1¼	1½	2	2	3	4	6	Total
First	189	1	...	2	...	192	1492	21	...	12	14	...	...	16	1	1556	1681	22	...	12	17	...	...	16	1	1748
Second	228	1	1	...	1	231	2198	19	...	27	19	...	...	43	14	2320	2426	20	...	28	19	...	...	44	14	2551
Third	414	2	...	1	...	417	1972	38	...	26	31	1	...	26	4	2098	2386	40	...	26	32	1	...	26	4	2515
Fourth	214	4	...	...	...	218	1694	32	3	26	25	...	...	14	...	1794	1908	36	3	26	25	...	...	14	...	2012
Fifth	143	...	...	...	...	143	1350	11	1	11	13	...	...	6	...	1392	1493	11	1	11	13	...	...	6	...	1535
Sixth	99	2	...	...	2	103	1437	19	...	10	11	...	...	7	...	1484	1531	21	...	10	11	...	...	9	...	1587
Seventh	...	...	...	...	...	...	94	6	1	8	6	...	1	4	4	124	94	6	1	8	6	...	1	4	4	124
Total	1287	10	1	3	3	1304	10237	146	5	120	119	1	1	116	23	10768	11519	156	5	121	123	1	1	119	23	12072

Total number reported December 31, 1900			11541
Made on account of street paving in 1901	241		
Made on application in 1901	341	582	
Removed and abandoned, 1901		51	
Net increase in 1901			531
Total number December 31, 1901			12072

339916

STATEMENT OF METERS DECEMBER 31, 1901.

KIND.	IN USE.									NOT IN USE.									TOTAL.								
	SIZE IN INCHES.								Total.	SIZE IN INCHES.								Total.	SIZE IN INCHES.								Total.
	⅝	¾	1	1½	2	3	4	6		⅝	¾	1	1½	2	3	4	6		⅝	¾	1	1½	2	3	4	6	
Crown	1	5	2	1	8	1	2	...	20	...	...	...	...	...	...	...	...	...	1	5	2	1	8	1	2	...	20
Columbia	10	14	...	...	...	...	...	...	24	5	2	...	...	...	...	...	...	7	15	16	...	...	...	...	...	...	31
Empire	...	...	2	...	3	...	...	...	5	...	...	...	...	...	...	...	...	...	...	...	2	...	3	...	...	...	5
Gem	...	...	...	...	3	...	...	...	3	...	...	...	...	...	...	...	...	...	...	...	...	...	3	...	...	...	3
Lambert	...	1	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	1
National	...	...	...	1	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	1
Pitts. Disc.	...	1	1	...	...	...	...	...	2	1	...	...	...	...	...	...	...	1	1	1	1	...	...	...	...	...	3
Thomson	2	6	3	4	5	1	4	..	25	1	...	1	...	...	...	...	...	2	3	6	4	4	5	1	4	...	27
Union	3	50	11	13	24	12	15	1	129	3	14	9	3	4	...	1	...	34	6	64	20	16	28	12	16	1	163
Worthington	...	2	6	5	1	1	...	...	15	...	2	3	...	...	...	...	...	5	...	4	9	5	1	1	...	...	20
Total	16	79	25	24	44	15	21	1	225	10	18	13	3	4	...	1	...	49	26	97	38	27	48	15	22	1	274

ANALYSES OF WATER BY DR. WM. P. MASON, TROY, N. Y.

RENSSELAER POLYTECHNIC INSTITUTE.
DEPARTMENT OF ANALYTICAL CHEMISTRY.

RESULTS IN PARTS PER MILLION.

LOCATION.	DATE. 1901.	Taste.	Odor.	Color.	Sediment. Quickly Falling.	Turbidity.	Free Ammonia.	Albuminoid Ammonia.	Chlorine.	Nitrogen in Nitrates.	Nitrogen in Nitrites.	Oxygen required to Oxidize Organic Matter at 212° F.	Alkalinity. As parts of C.A. C.O.3.	Total Solids.	Bacteria. (Per Cubic Centimetre.)	Bacillus. Coli Communis.	REMARKS.
Lake Erie.....	Feb. 8..	none	none	.08	none	15.	.03	.127	8.	.2	.001	1.2	50.	152.	5627.	present	See letter below.
New Intake.....		none	none	.08	none	6.	.08	.112	8.5	.2	.004	2.1	50.	135.	1209.	few present	
Pittsburgh Dock ..		none	none	.08	none	6.	.081	.134	8.5	.225	.0045	2.45	51.25	155.	1985.	present	
Reservoir..... ..		none	none	none	none	1.	.07	.155	8.5	.2	.0025	2.	50.	143.	410.	none	
Lake Erie.....	April 1..	none	none	.1	none	12.	.037	.075	6.5	.15	minute trace	1.2	42.5	140.	3000.	none	
New Intake.....		none	none	.1	none	6.	.100	.165	8.	.3	006	2.65	47.5	145.	5500.	present	
Pump Well.....		none	none	.1	none	6.	.105	.147	8.	.3	.003	2.3	47.5	148.	13000.	none	The count of Bacteria is high.
Reservoir.....		none	none	.05	none	5.	.048	.148	8.	.2	.0005	2.37	48.5	153.	8500.	none	
Horse Shoe Pond..	June 10..	none	none	none	none	none	.066	.278	6.	.075	trace	2.65	55.	165.	.....	none	The jelly flasks for all the waters arrived in bad condition. It appeared that they had been shipped before the jelly had hardened. In consequence it is not possible to count the colonies of Bacteria.
Lake Erie.....		none	none	none	none	none	.02	.095	6.	.075	trace	1.	50.	126.	.....	none	
New Intake.....		none	none	none	none	none	.07	.215	6.	.075	.003	1.55	50.	160.	.....	present	
Reservoir.....		none	none	none	none	none	.02	.175	6.	.15	.003	2.25	50.	146.	.....	none	

ANALYSES OF WATER—Continued.

LOCATION.	DATE. 1901.	RESULTS IN PARTS PER MILLION. Taste.	Odor.	Color.	Sediment. Quickly Balling.	Turbidity.	Free Ammonia.	Albuminoid Ammonia.	Chlorine.	Nitrogen in Nitrates.	Nitrogen in Nitrites.	Oxygen required to Oxidize Organic Matter at 212° F.	Alkalinity: As parts of C.A. C.O.3.	Total Solids.	Bacteria. (Per Cubic Centimetre.)	Bacillus. Coli Communis.	REMARKS.
Reservoir.....	Oct. 1...	none	none	trace	none	slight	.0560	.2470	6.	.037	none	2.5	45.	135.	100.	none	Oscillaria present in considerable numbers. This accounts for the relatively high "Albuminoid Ammonia" and "Oxygen Required."
Pump Well.....		none	none	trace	none	slight	.0880	.1460	6.	.043	.001	2.35	50.	167.	240.	none	
Lake Erie.....		none	none	none	none	slight	.0710	.0930	6.	.037	none	.85	50.	134.	70.	none	
New Intake.....		none	none	trace	none	slight	.0540	.1590	6.	.043	.001	2.1	50.	156.	119.	none	

TROY, N. Y., February 16, 1901.

Commissioners of Water Works, Erie, Pa.:

Gentlemen—Permit me to hand you herewith the analytical results for the samples of water taken February 8th. The water of the New Intake is decidedly superior to the Lake Water of that date, both in appearance and in composition. It is free from the fine silt that causes marked turbidity in the Lake Water; it contains a smaller number of Bacteria and fewer Gas-forming organisms. I am still of the opinion that it would be wiser for you to draw your raw water from the present source, rather than attempt the establishment of an intake crib in the lake. I note that the Reservoir sample of February 8th shows great improvement as a result of storage. You will observe the absence of Bacillus Coli Communis, which is a matter of importance. To my mind any future studies you might undertake should be directed toward determining the best possible treatment of your present supply, to the entire exclusion of all consideration of Lake Water. The question to be determined being the extent to which your Reservoir storage can be depended upon for improvement of the raw water, and a consideration of the form of such supplementary purification as might be found to be required.

Yours very truly,

WILLIAM P. MASON.

DRINKING FOUNTAINS FOR MAN, HORSE AND DOG.

Manufactured by J. L. Mott Iron Works, New York and Chicago.

STYLE.	DATE OF INSTALLATION.	WHERE LOCATED.
No. 1	October 26, 1894	South Park Row between State and French streets.
No. 2	June 13, 1894	Turnpike, Southwest corner State street.
No. 2	June 16, 1894	Parade and Southeast corner Tenth street.
No. 2	July 3, 1895	State and Southeast corner Eighteenth street.
No. 2	July 26, 1895	Parade, East Side, between Twelfth and Thirteenth streets.
No. 2	October 2, 1895	State, East Side, between Third and Fourth streets.
No. 2	June 16, 1896	Chestnut and Southeast corner Eighteenth street.
No. 2	July 31, 1897	Peach and Southeast corner Twenty-sixth street.
No. 2	August 5, 1897	Eighth street, Northwest corner Cranberry street.
No. 2	August 14, 1900	Peach and Lakeside Park.
No. 3	August 22, 1900	Water Works Park.
No. 2	July 24, 1901	Buffalo Road end of main.

STYLE No. 1—Square base; ornamental top, with square sides; three places for man, one for horses.

STYLE No. 2—Square base; oval sides, with plain top; one place for man, one for horses, two for dogs.

STYLE No. 3—Flat base; oval sides, with plain top; one place for man.

EXTRACT FROM THE REPORT OF A. A. KNUDSON, E.E.

Summary and Conclusions.

A complete voltmeter survey between the trolley tracks and piping system of a city such as has been made in Erie, reveals for one thing the character and efficiency of the rails as a return conductor in all parts of a city.

The rails by necessity are in connection with the earth, and the water mains are imbedded in the same streets a few feet away. The earth between the two metals is usually a good conductor of electricity, hence we have the condition of two paths by which the current will flow, and even when tracks are well constructed and the bonding well maintained, currrent will leave them to some extent and pass through the earth to the water and gas mains, through which it will flow until it reaches favorable conditions for again leaving them and returning to the rails. This return to the rails is usually most marked in the vicinity of the power house but is often found in other parts of a city.

Where the current leaves rails, pipes, or other metals, damage by electrolysis is caused, and not where it enters them.

The results of the survey in Erie show to a marked degree the comparative difference between a good rail return, and a very poor rail return. While even the best constructed and best bonded track will always show more or less passing of current from rails to mains and vice versa. Those tracks that have been neglected and are poor conductors of electricity, show proportionately greater escape and consequent larger opportunity for causing serious damage to the water pipes.

Those lines in the city which show acute indications of escape and consequently poor track return are East Twenty-sixth street, West Twenty-sixth street, West Twelfth street beyond Chestnut street, and East Sixth street. Also of the six railway grade crossings examined, *three* are found to be practically "open," so far as the trolley rails being conductors of electricity are concerned, as follows: Peach street near Union Station, East Sixth street, and East Eleventh street. These are explained in detail.

The tracks of the East Sixth street line when the tests were made were found to be such poor conductors that practically no current would flow through them, the earth and pipes in the street being the only path by which current could pass—a new departure from usual experience. Another practical illustration of this unbonded track is the recent accident near Wallace street where horses were thrown to the ground by their feet coming in contact with the rails each side of defective joints.

At the examination of the 12-inch main near Holland street, and also the 6-inch main on French street on this car route, some electrolytic damage to pipes in both places were found as explained. The 12-inch main in Twenty-sixth street appears to be carrying about all of the return current instead of the rails. The repairs to this track up to about this point are likely to create a positive condition, where the new rails cease and the old rails begin.

West Twenty-sixth Street Line.

This is regarded as the most important of any of the special danger locations in the city for the reason that the largest of the city's water mains is in this street. (See Map "C.") Over these mains are placed the tracks. Current flow from the rails of this road to and through the water mains has been identified as far north as the pumping station. It is regarded as unfortunate that trolley tracks are located at all on this portion of the street between Chestnut and Cherry streets, as owing to the three large mains, the 20-inch, 30-inch and 24-inch, besides a 12-inch, offering a conductivity far

better than any perfectly bonded track, current will escape and flow through them and a large part of the piping system from the extreme southern part of the city to the extreme northern, where the power house is located. The present defective condition of the tracks, of course, greatly aggravates the situation.

As a measure of some relief this line should be equipped with the best bonded tracks, such as the cast welded joints, or electric welded, and they should also be connected in the vicinity of the reservoir with an overhead supplemental wire running directly to the power house.

This would have the effect of reducing the current flow now passing through the large mains on Chestnut and Walnut streets to the pumping station thence to the power house. These mains, as shown in Map "A," now offer a direct path for current flow in that direction.

Conclusions.

First. The electric current discovered upon the water mains of your system and causing them injury has clearly been identified as coming from the tracks of the Erie Motor Company.

Second. A complete remedy from further damage would be for the railway company to abandon the tracks as a return and adopt what is known as the double trolley system, as more or less injury will continue so long as the tracks are used as a part of the electric circuit.

Third. With a view to checking the electrolytic action where it is the most acute it is respectfully recommended that the attention of the railway company be called to the specially defective points in their system herein specified, and that they be requested to make such immediate repairs as the conditions call for.

The samples of pipe damaged by electrolysis submitted to you, and the damage found upon the pipes where uncovered, are evidence that this corrosive action is certainly present at other and unknown places upon the system.

Operating electric cars upon wholly inefficient track returns, such as unbonded rails as has been shown to exist, and specified in a number of cases in this report, is a peculiar menace to the safety of the water piping system. This also applies to the Erie Traction Company to the extent where their cars run through Myrtle and adjoining streets.

There is some danger also to human life at the broad railroad crossings at East Sixth and East Eleventh streets, where under conditions of frozen ground in winter, or dry weather in warmer seasons, a car may, through poor earth contact, lose its power when on a crossing and liable to be run down by a passing train. If fast through trains were run over this steam road instead of freight trains as now, the danger would be much greater. When a trolley car was passing over either of these crossings their effect was noticed in the "broken variations" at a considerable distance.

The crossing found defective near the Union Station at Peach street is mainly responsible for the diversion of current to the steam tracks, thence to the iron bridge over State street and out at the lower ends of the anchor bolts which secure the pillars to the stone piers, where undoubted electrolytic action is in progress.

The water main at this railway crossing in Peach street is too far to one side of the trolley tracks to be made an "electrical bridge" and to receive lateral damage as the tests show. The same may be said of the water main at the East Sixth Street crossing.

At the East Eleventh street crossing, the case is different, and electrolytic damage would probably now be found upon the pipe if uncovered near the western side of the crossing.

The trolley current discovered flowing through the mains at the pumping station may be considered in the same light as an undesirable tenant; while no immediate damage through electrolytic action in the pipes or machinery is apprehended, it creates a possible condition for harm at points which cannot be examined, such as the inside of pipe joints or places in the machinery that are inaccessable. Lower differences of potential than found at this

ımping station has been known to have caused damage in and about stand pes in former examinations.

The pumping station and the power house are both located on the banks the bay, and the large water mains passing through the city to the pump-g station offer an easy path for trolley current to flow to and through it to et earth thence to the power house. Hence the geographical position of e two stations with that of the piping system of the city and the electric ilway tracks, is favorable for trolley current to pass directly toward and rough the pumping works. If the power house were located in the south the city instead of the north there would be no flow of current through e pumping station, as there would be no cause for it to pass in that rection.

As matters now stand no remedy except a change in the railway system, hich involves the use of insulated returns instead of rails and earth, will event some flow of current through the pumping station. Such a system ould be most desirable when viewed as a cure for electrolytic action upon pes that are in the ground. It would also revert to the advantage of the ilway people after the first cost of making the change in a reduction of erating expenses over the present method.

This investigation it will be understood was made at a season of the ar when traffic is light and consequently less current is used by the cars. ad it been made during the summer months, when the cars are more avily loaded, much higher voltmeter readings would doubtless have been corded, which would point to a more serious condition than herein shown.

Respectfully submitted,

A. A. KNUDSON.

36TH

ANNUAL REPOR

OF THE

COMMISSIONERS OF

WATER WORI

IN THE CITY OF ERIE,

ERIE, PENN'A,

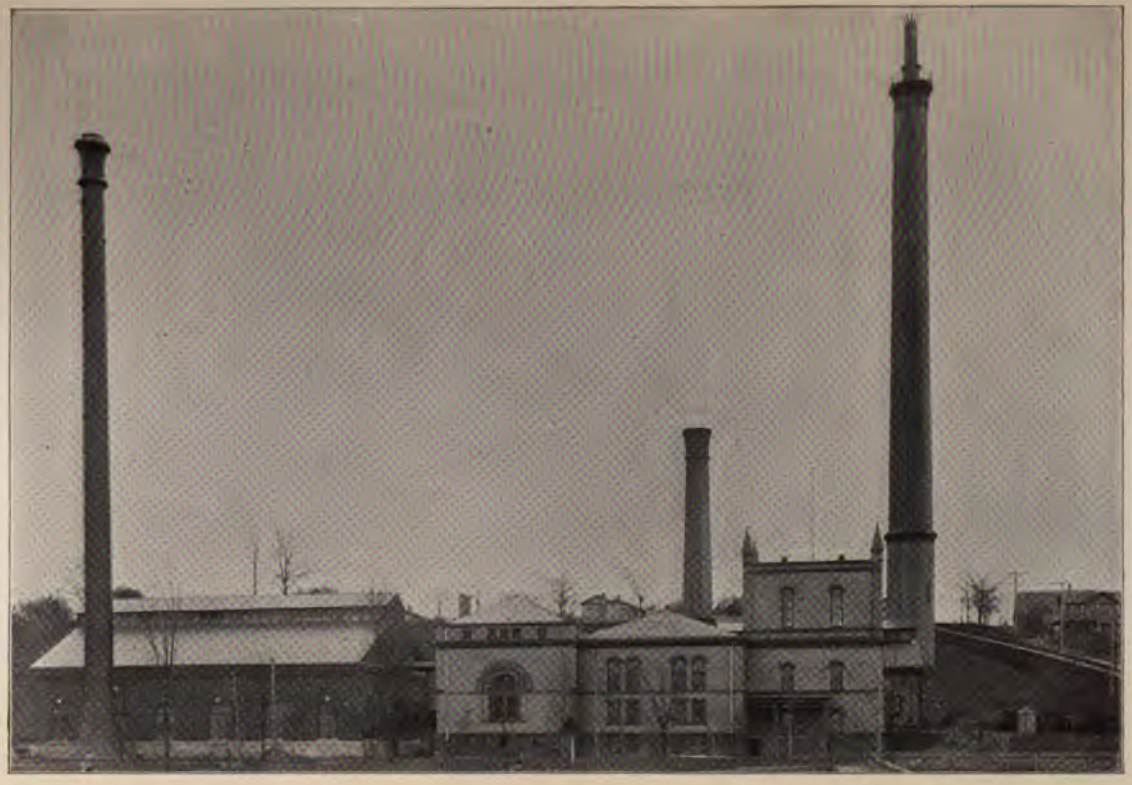
TO THE

COUNCILS,

FOR THE

YEAR ENDING DECEMBER 31, 1902.

ERIE, PA.:
TIMES PUBLISHING COMPANY.
1903.



Pumping Station as Seen from the Bay.

Commissioners of Water Works,

IN THE CITY OF ERIE,

ERIE, PENN'A.

CLARK OLDS.

G. F. BREVILLIER.

WILLIS B. DURLIN.

OFFICERS.

CLARK OLDS,
ASSC. M. AY. SOC. C. E.
President.

GEORGE C. GENSHEIMER,
Secretary and Treasurer.

JOHN KOLB,
Assistant Secretary.

F. A. ROTH,
Chief Engineer at Pumping Station.

R. T. WALKER,
Superintendent of Street Work.

OFFICE, CITY HALL.

OFFICE HOURS. From 8:00 a. m. to 5 p. m.; on Mondays to 9:00 p. m.

REGULAR MEETINGS OF THE COMMISSIONERS. Every Saturday at 3:00 p. m., and the first of each month at 11 a. m., except when it occurs on Sunday, then they meet the following day. Special meetings when necessary.

IN MEMORIAM.

WILLIAM HIMROD

DIED

MAY 30th, 1902.

AGE 61.

ANNUAL REPORT.

To the Councils of the City of Erie, Pa.:

GENTLEMEN:

We herewith submit the thirty-sixth annual report of this department, for the year ending December 31, 1902.

RECEIPTS.

Balance in City Treasury Dec. 31, 1901			$ 16,559 11
From Water Rents:			
Assessments	$108,775 29		
Meters	33,093 18		
Building Permits	1,249 70		
Special Permits	166 94		
		$ 143,285 11	
Plumbing and material sold		3,826 30	147,111 41
Total			$ 163,670 52

DISBURSEMENTS.

Construction	$ 59,875 68	
Maintenance	20,863 12	
Operating	29,318 11	
Accounting	7,757 74	
		$117,814.65
Balance in City Treasury Dec. 31, 1902		45,855.87
Total		$ 163,670 52

The increase in the receipts of the department for the year 1902 from water amounted to the sum of $9,405.24, from other sources, $2,316.60, making the total increase in the receipts the sum of $11,-721.84.

The amount of water pumped was 3,224,360,754 gallons, an increase over the previous year of 34, 335,838 gallons.

The daily average pumpage was 8,833,865 gallons. The daily average per capita pumpage, based upon a population of 56,483, was 156.4 gallons.

The daily average lift for the low service system was 236.40 feet.

The daily average lift for the high service system was 276.05 feet.

Three and one-eighth miles of new mains were laid during the past season, making the total length of mains in use December 31, 1902, 113⅞ miles.

The accounts of the water department have not been audited for six years, and in the meantime several changes have occurred in the personnel of the board. We reiterate the request that our accounts be audited annually.

The most important problem which confronts the department is how to furnish the city with water which is free from sewage contamination.

This problem might be solved by the adoption of any of the following plans, viz.: 1. The construction of an intercepting sewer along the city front which would prevent any sewage from entering the bay. 2. The construction of a filtration plant. 3. The extension of the intake pipe into Lake Erie.

For the period of twenty-two years this department has annually called the attention of your Honorable bodies to the gradual pollution of the water in the bay by the sewage from the city, and urged the construction of an intercepting sewer. One year ago we offered to bear a large proportion of the expense which would be incurred by the city in the construction of an intercepting sewer and a sewage disposal plant, notwithstanding we believe it to be the duty of the city to take care of its sewage.

The city has not taken any steps to bring about this much needed improvement, and we are forced to abandon all hope of its accomplishment. The contamination of the water in the bay will increase as the city grows and the lands west of the city are improved.

The filtration of water is often necessary, especially when a supply of pure water cannot be had, but it may be seriously questioned whether it would be wise to filter water known to be contaminated with city sewage, when a supply of uncontaminated water is near at hand and available.

Filtration has its limitations, but if thoroughly performed it will destroy the germs of typhoid fever or cholera; boiling water will accomplish the same results and prevent the transmission of those diseases through contaminated water, but it is exceedingly doubtful whether either or both together can make contaminated water entirely innocuous. Sand filtration, if properly performed, removes from water the bacteria of disease, and boiling kills all living germs, but there are soluble toxins found in contaminated waters which filtering does not remove and which boiling does not neutralize. They will not cause typhoid fever or cholera, but they may create other grave troubles in the stomach, kidneys and other organs.

Therefore we are of the opinion that it would be unwise for us to continue to take the water supply for the city from the bay, where it is contaminated with sewage, and attempt to purify it by filtration.

We believe it would be better to extend the intake pipe one mile into Lake Erie and get the purest water available to start with, and then to construct sedimentation basins in the peninsula where the lake water can be stored and clarified.

We have consulted Geo. Y. Wisner, C. E. of Detroit, Michigan, an eminent engineer of large experience in hydraulic engineering, also Dr. Wm. P. Mason, professor of Chemistry Rensselaer Polytechnic Institute whose reports may be found elsewhere in full accord with our contemplated improvements.

In October last we employed Geo. H. Fenkell, C. E., who was assistant engineer of the Detroit Water Works. He has been engaged in making surveys of the peninsula, studying the ice formation, making borings in the sand and the preparation of the plans and specifications for the extension of the intake pipe into Lake Erie.

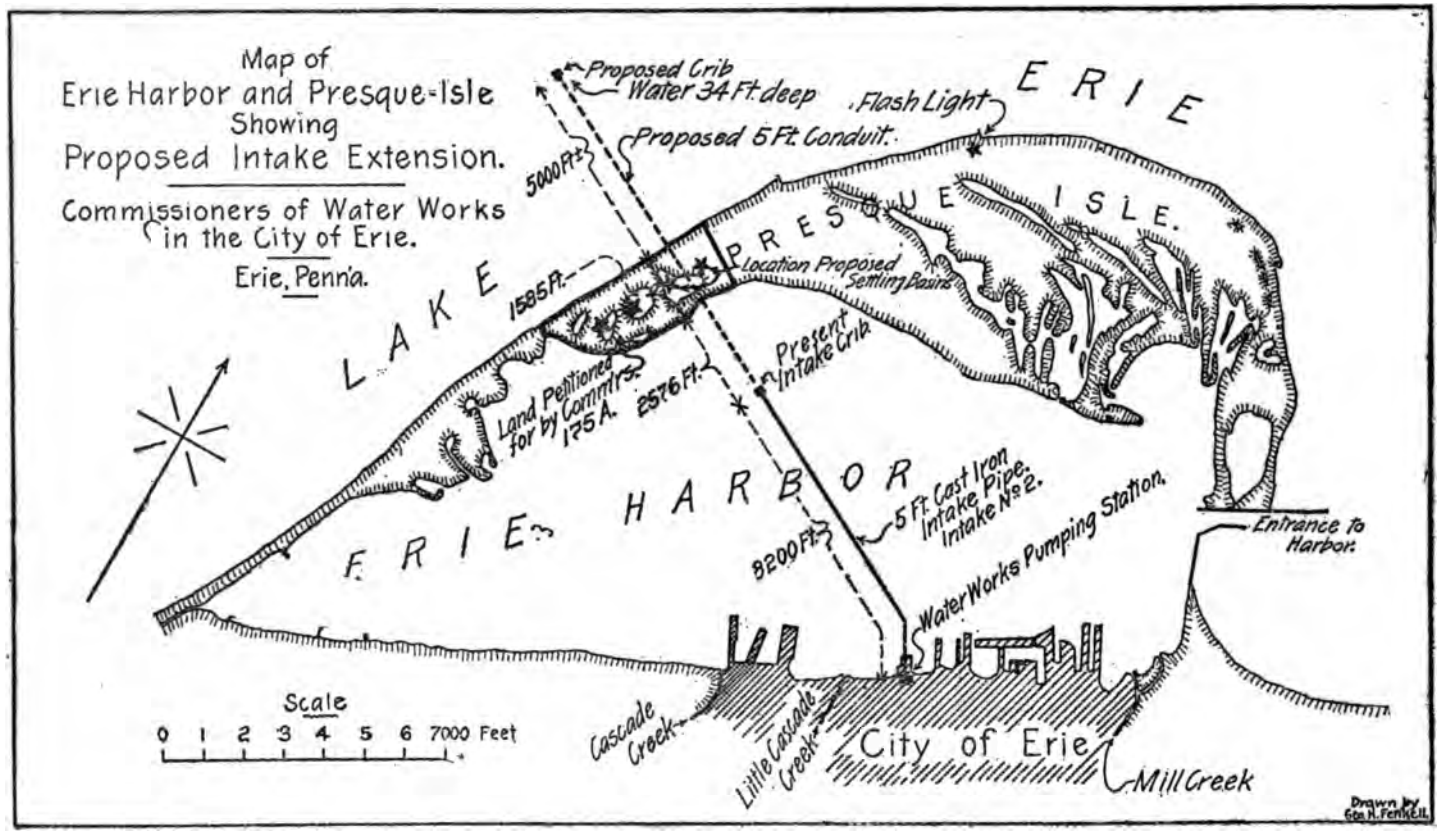
It is our duty to throw all possible safe guards around the sources of our water supply. The time may come when it will be necessary to filter the Lake water, and in that event we have a portion of the peninsula sufficiently large upon which to install a filtration plant.

At the foot of Chestnut street, near to the Pumping Station, we reclaimed a piece of land and constructed a swimming pool, which is open to the public during the bathing season. It is 75 feet wide, 155 feet long, the depth varying from 18 inches to 7 feet.

It was late in the season before it was completed, but it is very popular and affords a safe place where children may learn to swim.

Respectfully submitted,

CLARK OLDS,
G. F. BREVILLIER,
WILLIS B. DURLIN,
Commissioners.


Map of
Erie Harbor and Presque-Isle
Showing
Proposed Intake Extension.
Commissioners of Water Works
in the City of Erie.
Erie, Penn'a.
Proposed Crib
Water 34 Ft. deep
Flash Light
Proposed 5 Ft. Conduit.
5000 Ft.
ERIE
PRESQUE ISLE.
LAKE
1585 Ft.
Location Proposed Settling Basins
Present Intake Crib
Land Petitioned for by Commr's.
175 A.
2576 Ft.
ERIE HARBOR
5 Ft. Cast Iron Intake Pipe. Intake No. 2.
8200 Ft.
Water Works Pumping Station.
Entrance to Harbor.
Scale
0 1 2 3 4 5 6 7000 Feet
Cascade Creek
Little Cascade Creek
City of Erie
Mill Creek
Drawn by Geo. H. Fenkell.

Amount Collected Annually for Water Furnished, Showing Total Collections, also the Increase and Decrease Each Year Since the Commencement of the Water Works.

Year Ending Dec. 31st.	RECEIVED.		ANNUAL.	
	Annually.	Totals.	Increase.	Decrease.
1869	$ 4,264 47	$.....	$	$.....
1870	9,237 30	13,501 77	4,972 83	.....
1871	18,138 08	31,639 85	8,900 78	.....
1872	21,652 68	53,292 53	3,514 60	.....
1873	25,560 40	78,852 93	3,907 72	.....
1874	27,938 90	106,791 83	2,378 50	.....
1875	29,639 38	136,431 21	1,700 48	.....
1876	31,048 76	167,479 97	1,409 38	.....
1877	32,276 57	199,756 54	1,227 81	.....
1878	29,636 01	229,392 55	.....	2,640 56
1879	33,343 20	262,735 75	3,707 19	.....
1880	37,385 00	300,120 75	4,041 80	.....
1881	40,385 87	340,506 62	3,000 87	.....
1882	43,818 73	384,325 35	3,432 86	.....
1883	48,269 89	432,595 24	4,451 16	.....
1884	51,852 78	484,448 02	3,582 89	.....
1885	53 550 35	537,998 37	1,697 57	.....
1886	58,725 00	596,723 37	5,174 65	.....
1887	67,121 92	663,845 29	8,396 92	.....
1888	73,197 03	737,042 32	6,075 11	.....
1889	81,110 68	818,153 00	7,913 65	.....
1890	87,279 96	905,432 96	6,169 28	.....
1891	93,891 55	999,324 51	6,611 59	.....
1892	105,527 03	1,104,851 54	11,635 48	.....
1893	111,247 43	1,216,098 97	5,720 40	.....
1894	111,821 94	1,327,920 91	574 51*	.....
1895	116,927 63	1,444,848 54	5,105 69	.....
1896	121,442 94	1,566,291 48	4,515 31	.....
1897	124,106 61	1,690,398 09	2,663 67	.....
1898	131,303 48	1,821,701 57	7,196 87	.....
1899	139,344 02	1,961,054 59	8,040 54	.....
1900	122,198 58	2,083,253 17	.....	17,145 44‡
1901	133,879 87	2,217,133 04	11,681 29	.....
1902	143,285 11	2,360,418 15	9,405 24	.....

*Meter rates for water changed from a sliding scale of 6 cents to 10 cents per 1,000 gallons, according to amount consumed, to a flat rate of 6 cents per 1,000 gallons, causing a reduction in receipts of $5,000.00.

‡Meter rates changed from six cents per one thousand (1,000) gallons to twenty (20) cents for each one thousand (1,000) gallons for the first Twenty-five Thousand (25,000) gallons, and four (4) cents for each one thousand (1,000) gallons consumed thereafter during each current quarter. same took effect July 1, 1899. Family rates changed from $5.00 per annum to $4.00, taking effect January 1, 1900. These changes in rates account for the heavy decrease in the receipts for 1900.

Commissioners of Water Works, in the City of Erie, from Organization to December 31, 1902.

The Commissioners of Water Works, in the City of Erie, are appointed by the Court of Common Pleas of Erie County, Penn'a, for a term of three years, one member being named annually, in May.

1867	*W. L. Scott,	*Henry Rawle,	Wm. W. Reed.
1868	*John C. Selden,	*Henry Rawle,	Wm. W. Reed.
1869	*John C. Selden,	*Henry Rawle,	Wm. W. Reed.
1870	*John C. Selden,	*Henry Rawle,	Wm. W. Reed.
1871	*†John C. Selden,	*Henry Rawle,	Wm. W. Reed.
1872	Matthew R. Barr,	John Gensheimer,	Wm. W. Reed.
1873	Matthew R. Barr,	John Gensheimer,	Wm. W. Reed.
1874	Matthew R. Barr,	John Gensheimer,	Wm. W. Reed.
1875	Matthew R. Barr,	John Gensheimer,	Wm. W. Reed.
1876	Matthew R. Barr,	John Gensheimer,	Wm. W. Reed.
1877	Michael Liebel,	John Gensheimer,	Wm. W. Reed.
1878	Michael Liebel,	*J. M. Bryant,	Wm. W. Reed.
1879	Michael Liebel,	*J. M. Bryant,	*G. W. F. Sherwin.
1880	Michael Liebel,	*J. M. Bryant,	*G. W. F. Sherwin.
1881	Michael Liebel,	Benjamin Whitman,	*G. W. F. Sherwin.
1882	Michael Liebel,	Benjamin Whitman,	*G. W. F. Sherwin.
1883	Michael Liebel,	Benjamin Whitman,	*G. W. F. Sherwin.
1884	Michael Liebel,	Benjamin Whitman,	*G. W. F. Sherwin.
1885	Michael Liebel,	Benjamin Whitman,	*Geo. W. Starr.
1886	C. Kessler,	Benjamin Whitman,	*Geo. W. Starr.
1887	C. Kessler,	C. J. Brown,	*Geo. W. Starr.
1888	C. Kessler,	C. J. Brown,	*Geo. W. Starr.
1889	C. Kessler,	C. J. Brown,	*Geo. W. Starr.
1890	C. Kessler,	C. J. Brown,	*Geo. W. Starr.
1891	C. Kessler,	C. J. Brown,	Wm. Hardwick.
1892	T. W. Shacklett,	C. J. Brown,	Wm. Hardwick.
1893	T. W. Shacklett,	C. J. Brown,	Wm. Hardwick.
1894	T. W. Shacklett,	C. J. Brown,	Wm. Hardwick.
1895	T. W. Shacklett,	‡C. J. Brown,	Wm. Hardwick.
1896	T. W. Shacklett,	Clark Olds,	Wm. Hardwick.
1897	T. W. Shacklett,	Clark Olds,	Wm. Hardwick.
1898	T. W. Shacklett,	Clark Olds,	Wm. Hardwick.
1899	T. W. Shacklett,	Clark Olds,	Wm. Hardwick.
1900	T. W. Shacklett,	Clark Olds,	G. F. Brevillier.
1901	Willis B. Durlin,	Clark Olds,	G. F. Brevillier.
1902	Willis B. Durlin,	Clark Olds,	G. F. Brevillier.

*Dead.

†Mr. Selden resigned before the expiration of his second term; Mr. Barr was substituted by the other Commissioners, and afterward appointed by the Court.

‡C. J. Brown resigned December 28, 1895, having been elected Treasurer of Erie County, Penn'a Clark Olds was chosen by the other Commissioners for the unexpired term, on recommendation of the Court, January 2, 1896.

Officers of Water Works, from Organization to December 31, 1902.

	President.	Secretary and Treasurer.	Assistant Secretary.
1867	Wm. W. Reed,	*Wm. Brewster,	.....
1868	Wm. W. Reed,	*Wm. Brewster,	.....
1869	Wm. W. Reed,	*J. C. Perkins,	.....
1870	Wm. W. Reed,	*J. C. Perkins,	.....
1871	Wm. W. Reed,	*J. C. Perkins,	.....
1872	Wm. W. Reed,	*J. C. Perkins,	.....
1873	Wm. W. Reed,	*J. C. Perkins,	.....
1874	Wm. W. Reed,	*J. C. Perkins,	.....
1875	Wm. W. Reed,	*J. C. Perkins,	.....
1876	Wm. W. Reed,	*J. C. Perkins,	.....
1877	Wm. W. Reed,	*J. C. Perkins,	.....
1878	Wm. W. Reed,	*J. C. Perkins,	.....
1879	Michael Liebel,	B. F. Sloan,	.....
1880	Michael Liebel,	B. F. Sloan,	.....
1881	*G. W. F. Sherwin,	B. F. Sloan,	.....
1882	*G. W. F. Sherwin,	B. F. Sloan,	.....
1883	*G. W. F. Sherwin,	B. F. Sloan,	.....
1884	Benjamin Whitman,	B. F. Sloan,	Geo. C. Gensheimer.
1885	Benjamin Whitman,	B. F. Sloan,	Geo. C. Gensheimer.
1886	Benjamin Whitman,	B. F. Sloan,	Geo. C. Gensheimer.
1887	*Geo. W. Starr,	B. F. Sloan,	Geo. C. Gensheimer.
1888	*Geo. W. Starr,	B. F. Sloan,	Geo. C. Gensheimer.
1889	*Geo. W. Starr,	B. F. Sloan,	Geo. C. Gensheimer.
1890	*Geo. W. Starr,	B. F. Sloan,	Geo. C. Gensheimer.
1891	C. J. Brown,	*Wm. Himrod,	Geo. C. Gensheimer.
1892	C. J. Brown,	*Wm. Himrod,	Geo. C. Gensheimer.
1893	C. J. Brown,	*Wm. Himrod,	Geo. C. Gensheimer.
1894	Wm. Hardwick,	*Wm. Himrod,	Geo. C. Gensheimer.
1895	Wm. Hardwick,	*Wm. Himrod,	Geo. C. Gensheimer.
1896	T. W. Shacklett,	*Wm. Himrod,	Geo. C. Gensheimer.
1897	T. W. Shacklett,	*Wm. Himrod,	Geo. C. Gensheimer.
1898	T. W. Shacklett,	*Wm. Himrod,	Geo. C. Gensheimer.
1899	Clark Olds,	*Wm. Himrod,	Geo. C. Gensheimer.
1900	Clark Olds,	*Wm. Himrod,	Geo. C. Gensheimer.
1901	Clark Olds,	*Wm. Himrod,	Geo. C. Gensheimer.
1902	Clark Olds,	Geo. C. Gensheimer.	John Kolb.

*Dead.

NOTE.—Mr. Brewster was elected June 14, 1867; resigned October 26, 1868, to take effect November 2, 1868; served 1 year, 4 months and 18 days. Mr. Perkins was elected October 26, 1868, to take effect November 2, 1868; resigned March 30, 1878; same accepted December 21, 1878, to take effect January 1, 1879; served 10 years, 1 month and 29 days. Mr. Sloan was elected December 21, 1878, to take effect January 1, 1879; continued in office to June 1, 1891; served 12 years and 5 months. Mr. Himrod was appointed Secretary May 23, 1891, to take effect June 1, 1891; died May 30, 1902; having served 11 years. Mr. Gensheimer was appointed Assistant Secretary January 26, 1884, and Secretary and Treasurer June 14, 1902. Mr. Kolb was appointed Assistant Secretary June 14, 1902.

Monthly Receipts from all Sources during the Year Ending December 31, 1902.

MONTH.	Assessment.	Meter.	Special	Plumbing	Building.	Total
January...	$24,498 11	$7,906 62	$13 50	$194 58	$18 49	$32,631 30
February	2,251 63	.....	8 17	1,735 67	14 80	4,010 27
March....	244 54	35 98	6 00	838 71	43 34	1,168 57
April.....	24,042 37	8,175 79	11 75	1 90	46 86	32,278 67
May.....	2,365 91	.....	42 52	.....	83 58	2,492 01
June.....	619 14	316 02	7 50	586 85	100 87	1,630 38
July.....	24,470 51	7,875 26	8 25	19 47	268 90	32,642 39
August ..	2,435 37	.....	28 35	4 65	331 15	2,799 52
Sept'ber..	250 35	25 45	.....	12 40	88 36	376 56
October ..	25,223 69	8,517 54	32 25	160 74	97 73	34,031 95
November	2,315 63	188 88	5 65	225 80	109 45	2,845 41
December	58 04	51 64	3 00	45 53	46 17	204 38
	$108,775 29	$33,093 18	$166 94	$3,826 30	$1,249 70	$147,111 41

Receipts from each Ward during the Year Ending December 31, 1902.

WARD.	Assessment.	Meter.	Special	Plumbing	Building.	Total
First.....	$14,664 31	$3,638 86	$15 82	$92 67	$309 24	$18,720 90
Second...	22,735 85	17,227 34	7 75	2,846 35	125 20	42,942 49
Third	25,665 77	6,456 48	25 52	557 21	408 06	33,113 04
Fourth...	20,252 79	1,763 72	62 10	274 51	218 67	22,571 79
Fifth.....	11,516 75	2,364 27	1 50	.....	94 32	13,976 84
Sixth	12,594 52	675 13	16 00	9 00	65 45	13,360 10
Seventh...	1,345 30	967 38	38 25	46 56	28 76	2,426 25
	$108,775 29	$33,093 18	$166 94	$3,826 30	$1,249 70	$147,111 41

Cash Account of Secretary and Treasurer of Commissioners of Water Works, in the City of Erie, for the Year Ending December 31, 1902.

Month.	Receipts.	Deposited with Treasurer City of Erie.	Balance in Office at Close of Business Each Month.
January	$ 32,631 30	$ 29,763 64	$2,867 66
February	4,010 27	6,811 07	66 86
March	1,168 57	1,066 67	168 76
April	32,278 67	29,140 12	3,307 31
May	2,492 01	5,645 40	153 92
June	1,630 38	1,511 95	272 35
July	32,642 39	30,363 66	2,551 08
August	2,799 52	5,149 36	201 24
September	376 56	499 68	78 12
October	34,031 95	31,282 59	2,827 48
November	2,845 41	5,605 44	67 45
December	204 38	271 83	.....
Total	$147,111 41	$147,111 41	$ .....

Statement of Account with Treasure of the City of Erie, for the Year Ending December 31, 1902.

Month.	Received from Sec'y and Treas. Commissioners of Water Works in the City of Erie.	Paid on Warrants of Commissioners of Water Works in the City of Erie.	Monthly Balances.
Balance from 1901	$ 16,559 11	$.....	$.....
January	29,763 64	3,872 85	42,449 90
February	6,811 07	3,995 93	45,265 04
March	1,066 67	7,322 43	39,009 28
April	29,140 12	7,776 38	60,373 02
May	5,645 40	24,841 51	41,176 91
June	1,511 95	10,536 29	32,152 57
July	30,363 66	7,876 44	54,639 79
August	5,149 36	11,077 70	48,711 45
September	499 68	9,657 92	39,553 21
October	31,282 59	10,433 13	60,402 67
November	5,605 44	13,409 42	52,598 69
December	271 83	7,014 65	45 855 87
Total	$163,670 52	$117,814 65	$ 45,855 87

STATEMENT OF WARRANTS ISSUED IN 1902.

January.

TO PAY VOUCHER.

Date.	No.	Of For	Amount.
4	11553	George C. Gensheimer, Ass't Sec'y, Sundries	$ 25 10
	11554	Pay Roll, Street Work, Disbursed by M. L. Whitley, Clerk	566 62
11	11555	Erie Hard Wall Plaster Co., Cement	1 00
	11556	Thompson Meter Co., Repairing Meters	1 38
	11557	O. C. Thayer & Son, Cement	2 10
	11558	J. G. Schlindwein, Repairing Harnesses	2 40
	11559	Keystone Electric Company, Repairing arc lamps	3 65
	11560	U. D. Sweigard, Repairing lanterns and pump	4 64
	11561	Erie Window Glass Co., Oil, glass, etc.	4 92
	11562	Ashby Printing Co., Stationery	4 94
	11563	Deming Bros., Meter box	5 00
	11564	Franklin Coal Co., Blossburg coal	5 00
	11565	Erie Company, Coke	5 10
	11566	Constable Bros., Co., Material and labor	5 36
	11567	New York & Pennsylvania Tel. & Tel. Co., Rent of telephone	6 00
	11568	Central Blacksmith Works, Horse shoeing	7 00
	11569	Union Iron Works, Material and labor	7 55
	11570	Warfel & Arbuckle, Horse blankets	8 75
	11571	H. C. Dunn, Mgr., Brick	9 75
	11572	John McCormick & Son, Water rent returned	9 77
	11573	C. Kessler, Brooms, mops, etc.,	9 99
	11574	Union Water Meter Company, Repairing meters	11 75

January—Continued.

TO PAY VOUCHER.

Date.	No.	Of For	Amount.
	11575	Keystone Brass Co., Material and labor	15 99
	11576	E. J. Riblet, Rent of shop	20 00
	11577	Mehl & Sapper, Hardware	23 06
	11578	Erie Engine Works, Material and labor	28 30
	11579	Wm. Densmore & Co., Oats	29 00
	11580	The Electric Equipment Co., Repairing arc lamps	33 19
	11581	Pennsylvania Rubber Company, Rubber valves	36 00
	11582	A. S. Pinney, Hardware	51 30
	11583	Erie Mfg. & Supply Co., Waste, packing, etc.,	161 17
	11584	Erie Oil Company, Oil	134 44
	11585	The W. L. Scott Company, Coal	392 00
	11586	Hays Manufacturing Co., Pipe, fittings, etc.,	678 32
	11587	Herald Printing & Publishing Co., Stationery	2 07
	11588	G. J. Gebhardt, Coal	12 00
	11589	George C. Gensheimer, Ass't. Secy., Sundries	17 12
	11590	James L. Firman, Teaming	22 16
	11591	Pay Roll—street work, Disbursed by Frank P. Church, Clerk	686 04
18	11592	Times Publishing Co., Annual subscription	3 00
	11593	The Dispatch Publishing Co., Annual subscription	6 00
	11594	George C. Gensheimer, Ass't. Sec'y., Sundries	19 50
	11595	Pay Roll—street work, Disbursed by Frank P. Church, Clerk	473 08
25	11596	George C. Gensheimer, Ass't. Sec'y., Sundries	15 05
	11597	Pay Roll—street work, Disbursed by Frank P. Church, Clerk	273 32
28	11598	American Oil Works, Boiler compound	32 97
		Total	$ 3,872 85

February.

TO PAY VOUCHER.

Date.	No.	Of For	Amount.
1	11599	George C. Gensheimer, Ass't. Sec'y., Sundries	30 00
	11600	Pay Roll—street work, Disbursed by Frank P. Church, Clerk	154 49
	11601	Pay Roll—Office and Inspectors, Disbursed by George C. Gensheimer, Ass't Sec'y.,	889 16
	11602	Pay Roll—Pumping Station, Disbursed by George C. Gensheimer, Ass't. Sec'y.,	940 00
8	11603	Wm. F. Nick & Son, Ammonia, lead, etc.,	1 00
	11604	Skinner Engine Company, Oiler Glasses	1 00
	11605	Erie Machine Shops, Material and labor	1 60
	11606	Murphy Bros., Torches, copper and labor	2 35
	11607	Erie Hard Wall Plaster Co., Cement	2 50
	11608	Harry Thompson, Spring steel and cleaning arithmometer	2 70
	11609	Herald Printing & Publishing Co., Stationery	3 25
	11610	John Reinhold, Jr., Bronze, brush, ammonia, etc.,	3 25
	11611	Edison Electric Light & Power Co., Light at shop	3 66
	11612	U. D. Sweigard, Repairing lanterns, solder and labor	4 07
	11613	Keystone Brass Co., Repairing air pump, sheet brass, etc	4 20
	11614	Dickson Gun Store, Dynamite, caps and fuse	4 36
	11615	Lyman Felheim, Lumber	4 50
	11616	The Electric Equipment Co., Repairing arc lamps	5 00
	11617	Keystone Electric Company, Repairing electric light plant	5 16
	11618	J. G. Schlindwein, Repairing harnesses	5 20
	11619	John H. Buys, Coal	5 75
	11620	Thomson Meter Company, Repairing meters	6 10
	11621	H. C. Dunn, Mgr., Brick	6 50
	11622	Emil Streuber, Sole leather and mutton tallow	6 90

February—Continued.

TO PAY VOUCHER.

Date.	No.	Of For	Amount.
	11623	Henry R. Worthington, Tubes for engine, No. 5	7 20
	11624	C. Kessler, Candles, soap, brooms and wicking	7 80
	11625	Michael Loesel, Care of connections	9 43
	11626	Central Blacksmith Works, Blacksmithing,	10 40
	11627	G. J. Gebhardt, Coal	12 00
	11628	Wm. Schade, Blacksmithing	13 76
	11629	A. S. Pinney, Hardware,	15 61
	11630	Hays Manufacturing Co., Pipe, fittings, etc.	16 96
	11631	Mehl and Sapper, Hardware	17 84
	11632	E. J. Riblet, Rent of shop	20 00
	11633	George C. Gensheimer, Ass't. Sec'y., Sundries	25 52
	11634	Wm. Densmore & Co., Oats	28 00
	11635	Henry Althof, Wire guards	45 00
	11636	Jarecki Manufacturing Co., Fittings, etc.	56 15
	11637	Union Oil Works, Oil	141 98
	11638	James McCrea & Co., Steam joint clamps	203 63
	11639	Erie Mfg. & Supply Co., Waste, packing, etc.	260 65
	11640	The W. L. Scott Company, Fuel	460 08
	11641	Pay Roll—street work, Disbursed by Frank P. Church, Clerk	135 72
	11642	R. B. Willis, Care of connections	4 20
	11643	R. T. Walker, Rent of barn (one month)	5 00
15	11644	George C. Gensheimer, Ass't. Sec'y., Sundries	12 73
	11645	Pay Roll—street work, Disbursed by Frank P. Church, Clerk	168 37
21	11646	George C. Gensheimer, Ass't. Sec'y., Sundries	13 83
	11647	Pay Roll—street work, Disbursed by Frank P. Church, Clerk	211 37
		Total	$ 3,995 93

March.

TO PAY VOUCHER.

Date.	No.	Of For	Amount.
1	11648	R. R. Mehaffey, Repairs to boilers	56 55
	11649	Clark Olds, Services as Commissioner—2 mos.	150 00
	11650	G. F. Brevillier, Services as Commissioner—2 mos.	150 00
	11651	Willis B. Durlin, Services as Commissioner—2 mos.	150 00
	11652	Pay Roll—street work, Disbursed by Frank P. Church, Clerk	168 32
	11653	Pay Roll—pumping station, Disbursed by George C. Gensheimer, Ass't. Sec'y.	966 50
	11654	Pay Roll—office and inspectors, Disbursed by George C. Gensheimer, Ass't. Sec'y.	891 66
8	11655	Lyman Felheim, Lumber	1 72
	11656	H. J. E. Reinhardt, Care of connections	1 79
	11657	The Electric Equipment Co., Repairs to electric light plant	2 02
	11658	South Erie Iron Works, Castings	2 50
	11659	Thomson Meter Co., Repairs to meters	2 50
	11660	Herald Printing & Publishing Co., Binding Reports	3 00
	11661	Keystone Brass Co., Repairs to boiler and engine	3 85
	11662	Central Blacksmith Works, Horse shoeing	4 40
	11663	Union Oil Works, Oil	4 94
	11664	C. Kessler, Brooms, soap, baskets, etc.	6 07
	11665	Keystone Electric Company, Repairs to Electric Light Plant	6 99
	11666	Jarecki Manufacturing Co., Fittings, etc.	7 04
	11667	A. S. Pinney, Hardware	7 12
	11668	National Meter Company, Repairs to meters	7 20
	11669	John Reinhold, Jr., Paints, varnish, etc.,	7 25
	11670	Murphy Bros., Repairs to oil cans, etc.	8 55
	11671	Erie Window Glass Co., Glass, oil, paint, etc.	11 40

March—Continued.

TO PAY VOUCHER.

Date.	No.	Of For	Amount.
	11672	Geo. C. Gensheimer, Ass't. Sec'y., Sundries	13 72
	11673	Lake City Machine Shop, Tools	15 52
	11674	Globe Iron Foundry Co., Castings	18 55
	11675	Mehl and Sapper, Hardware	18 69
	11676	Union Iron Works, Heater for engine No. 3	25 00
	11677	Erie Metal Co., Castings, etc.	25 44
	11678	Wm. Schade, Blacksmithing	27 18
	11679	Erie City Iron Works, Grates for Boilers	27 37
	11680	Ashby Printing Co., Stationery	38 85
	11681	Mutual Telephone Co., Rent of Telephones	47 33
	11682	O. C. Thayer & Son, Flemish clay and brick	55 63
	11683	Constable Bros. Co., Material and labor	42 63
	11684	Erie Engine Works, Castings and work on patterns	65 99
	11685	Erie Oil Company, Oil	131 58
	11686	Hays Manufacturing Co., Pipe and fittings	131 96
	11687	Henry R. Worthington, Air compressor, etc.	188 00
	11688	Erie Mfg. & Supply Co., Waste, packing, etc.	379 66
	11689	The W. L. Scott Company, Coal	598 96
	11690	The United States Cast Iron Pipe & Foundry Co.,—Cast iron pipe and specials	1,822 57
	11691	Pay Roll—street work, Disbursed by Frank P. Church, Clerk	219 87
15	11692	George C. Gensheimer, Ass't. Sec'y., Sundries	5 08
	11693	Charles Bengal, Painting engine No. 3	95 00
	11694	Pay Roll—street work, Disbursed by Frank P. Church, Clerk	205 39
22	11695	Pay Roll—street work, Disbursed by Frank P. Church, Clerk	160 94
	11696	Conrad J. Brown, Straw	9 07

March—Continued.

TO PAY VOUCHER.

Date.	No.	Of For	Amount.
29	11697	George C. Gensheimer, Ass't. Sec'y., Sundries	5 54
	11698	American Oil Works, Boiler compound	33 61
	11699	Pay Roll—street work, Disbursed by Frank P. Church, Clerk	291 95
		Total	$ 7,322 43

April.

TO PAY VOUCHER.

Date.	No.	Of For	Amount.
1	11700	Pay Roll—office and inspectors, Disbursed by George C. Gensheimer, Ass't. Sec'y.	891 66
	11701	Pay Roll—pumping station, Disbursed by George C. Gensheimer, Ass't. Sec'y.	1,005 00
5	11702	George C. Gensheimer, Ass't Sec'y., Sundries	10 71
	11703	Pay Roll—street work, Disbursed by Frank C. Church, Clerk	438 45
12	11704	Erie Machine Shops, Castings	1 00
	11705	Wm. F. Nick & Son, Oil, etc.	1 05
	11706	Charles Veit, Repair of connections	1 35
	11707	Erie Company, Coke	1 46
	11708	Ashby Printing Co., Stationery	2 85
	11709	American Water Works Association, Annual Dues	3 00
	11710	Edison Construction & Supply Dep't., Globes for Arc lamps	3 00
	11711	Held, Gorenflo & Co., Printing postal cards	3 00
	11712	Erie Metal Co., Brass and bronze castings	3 20
	11713	Union Iron Works, Material and labor,	3 85
	11714	John J. O'Brien, Printing	4 00
	11715	Keystone Brass Co., Material and labor	4 04
	11716	W. C. Hull, Horse shoeing	4 40

April—Continued.

TO PAY VOUCHER.

Date.	No.	Of For	Amount.
	11717	Oil Well Supply Co., Galvanized iron pipe	4 44
..	11718	Charles Bengal, Painting engine	4 50
	11719	C. Kessler, Soap, etc.	4 85
	11720	Lyman Felheim, Lumber	5 45
	11721	New York & Pennsylvania Tel. & Tel. Co., Telephone service	6 00
	11722	Central Blacksmith Works, Blacksmithing	6 25
	11723	James L. Firman, Teaming	6 32
	11724	Warner Bros., Linoleum, etc.	9 61
	11725	Lake City Machine Shop, Tools, etc.	9 68
	11726	John Reinhold, Jr., Oil and paints	10 00
	11727	U. D. Sweigard, Labor and material	10 95
	11728	Mehl and Sapper, Hardware	11 31
	11729	George G. Gensheimer, Ass't. Sec'y., Sundries	11 87
	11730	G. J. Gebhardt, Coal	12 00
	11731	Power Specialty Company, Valves	12 00
	11732	A. S. Pinney, Hardware	13 46
	11733	Wm. Schade, Blacksmithing	22 13
	11734	Wm. Densmore & Co., Oats	26 50
	11735	The Himrod Engraving Company, Stationery	32 95
	11736	Thomson Meter Co., Repairs to meters	38 32
	11737	Hays Manufacturing Co., Pipe, fittings, etc.	43 13
..	11738	E. J. Riblet, Shop rent (2 mos.)	40 00
	11739	Crosby Steam Gauge & Valve Co., Drum indicator and reducer wheel	84 50
	11740	Union Oil Work, Oil	123 85
	11741	The Electric Equipment Co., Arc Lamps and labor	159 67

April—Continued.

TO PAY VOUCHER.

Date.	No.	Of	For	Amount.
	11742	Erie Mfg. & Supply Co.,	Waste, packing, etc.	164 95
	11743	The McCreary Roofing Co.,	Material and labor	203 92
	11744	Henry R. Worthington,	Valves	262 85
	11745	R. D. Wood & Co.,	Gate valves	684 00
	11746	The W. L. Scott Company,	Coal	1,478 56
	11747	Pay Roll—street work,	Disbursed by Frank P. Church, Clerk	558 36
	11748	R. F. Gaggin,	Insurance	11 00
19	11749	George C. Gensheimer, Ass't. Sec'y.,	Sundries	6 58
	11750	The Hisey-Wolf Machine Co.,	Electrical Tools	39 20
	11751	Pay Roll—street work,	Disbursed by Frank P. Church, Clerk	653 50
26	11752	Pay Roll—street work,	Disbursed by Frank P. Church, Clerk	621 70
			Total	$ 7,776 38

May.

TO PAY VOUCHER.

Date.	No.	Of	For	Amount.
1	11753	Clarks Olds,	Services as Commissioner—2 mos.	150 00
	11754	G. F. Brevillier,	Services as Commissioner—2 mos.	150 00
	11755	Willis B. Durlin,	Services as Commissioner—2 mos.	150 00
	11756	Pay Roll—Office and inspectors,	Disbursed by George C. Gensheimer, Ass't. Sec'y.	891 66
	11757	Pay Roll—pumping station,	Disbursed by George C. Gensheimer, Ass't. Sec'y	997 50
3	11758	George C. Gensheimer, Ass't. Sec'y.,	Sundries	6 98
	11759	Pay Roll—street work,	Disbursed by Frank P. Church, Clerk	623 97
8	11760	John Peak,	Account painting steel plate chimney	50 00
10	11761	Erie Hard Wall Plaster Co.,	Cement	1 00

May—Continued.

TO PAY VOUCHER.

Date.	No.	Of	For	Amount.
	11762	Emil Streuber,	Tan bark	1 00
	11763	The Himrod Engraving Co.,	Stationery	1 50
	11764	Mayer Bros.,	Connecting Meter box,	1 50
	11765	O. C. Thayer & Son,	Cement	1 50
	11766	H. F. Watson Company,	Asbestos	2 00
	11767	Erie Heating & Plumbing Co.,	Pipe	2 50
	11768	Brown & Thomas,	Pan rails	2 55
	11769	Keystone Electric Company,	Repairs to electric light plant	2 95
	11770	Engineering News,	Subscription for balance of year	3 46
	11771	W. C. Hull,	Horse shoeing	4 40
	11772	Erie Metal Co.,	Castings	4 45
	11773	Deming Bros.,	Meter box	4 50
	11774	Murphy Bros.,	Repairing oil cans, torches, etc.	4 85
	11775	Pennsylvania Rubber Co.,	Repairs to ledger truck	5 00
	11776	John Reinhold, Jr.,	Bronze, paint, etc.,	5 35
	11777	The Gallagher Printing Company,	Blank plumbers' licenses	6 75
	11778	C. Kessler,	Brooms and soap	6 75
	11779	James McCrea & Co.,	Steam joint clamps	6 75
	11780	Wm. F. Nick,	Lead, oil and dryer	7 00
	11781	The Bristol Company,	Charts for recording gauge	7 50
	11782	Erie Company,	Coke	8 27
	11783	Erie Machine Shops,	Material and labor	10 95
	11784	The Electric Equipment Co.,	Repairs to electric light plant	13 35
	11785	A. S. Pinney,	Hardware	18 39
	11786	E. J. Riblet,	Rent of shop	20 00

May—Continued.

TO PAY VOUCHER.

Date.	No.	Of For	Amount.
	11787	Keystone Brass Co., Sheet brass and labor	20 60
	11788	Ashby Printing Co., Stationery	21 70
	11789	Wm. Densmore & Co., Oats	27 50
	11790	Lyman Felheim, Lumber	37 73
	11791	Jarecki Manufacturing Co., Bolts, flanges and labor	38 71
	11792	Mehl and Sapper, Hardware	42 02
	11793	Hays Manufacturing Co., Pipe, fittings, etc.	50 82
	11794	James L. Firman, Teaming	51 05
	11795	R. D. Wood & Co., Repairs to fire hydrants	70 46
	11796	Erie Oil Company, Oil	163 58
	11797	Erie Mfg. & Supply Co., Triplex block, belting, waste and packing	239 68
	11798	The W. L. Scott Company, Coal	1,128 64
	11799	U. S. Cast Iron Pipe & Foundry Co., Cast iron pipe and specials	13,092 27
	11800	Clark Olds, John Peak—account painting steel .plate chimney,	2 25
	11801	A. S. Pinney, John Peak—account painting steel .plate chimney	5 10
	11802	Hollands Mfg. Co., Material and labor	6 11
	11803	Erie Window Glass Co., Account painting steel plate chimnev	31 98
	11804	John Peak, Account painting steel plate chimney	31 98
	11805	Harry Thompson, Cleaning and repairing arithmometer and stamp	3 25
	11806	Momeyer & Graf, Blacksmith coal	5 00
	11807	Erie Window Glass Co., Glass, paint and oil	5 30
	11808	Wm. E. Louch, Hose	6 25
	11809	George C. Gensheimer, Ass't. Sec'y., Sundries	12 77
	11810	Pay Roll—street work, Disbursed by Frank P. Church, Clerk	633 16

May—Continued.

TO PAY VOUCHER.

Date.	No.	Of For	Amount.
	11811	John Wahl Commission Co., Pig lead	1,605 77
	11812	John O. Baker, Balance on contract—Pier work	199 98
17	11813	George C. Gensheimer, Ass't. Sec'y., Sundries	47 58
	11814	Pay Roll—street work, Disbursed by Frank P. Church, Clerk	694 63
24	11815	George C. Gensheimer, Ass't. Sec'y., Sundries	12 75
	11816	Pay Roll—street work, Disbursd by Frank P. Church, Clerk	722 44
	11817	American Oil Works, Boiler compound	34 81
31	11818	George C. Gensheimer, Ass't. Sec'y., Sundries	57 52
	11819	Pay Roll—street work, Disbursed by Frank P. Church, Clerk	686 61
	11820	Pay Roll—Office and inspectors, Disbursed by George C. Gensheimer, Ass't. Sec'y.	891 66
	11821	Pay Roll—pumping station, Disbursed by George C. Gensheimer, Ass't. Sec'y.	987 50
		Total	$24,841 51

June.

TO PAY VOUCHER.

Date.	No.	Of For	Amount.
7	11822	George C. Gensheimer, Ass't. Sec'y., Sundries	19 86
	11823	Erie & Western Transportation Co., Freight on Pig Lead	42 32
	11824	Pay Roll—street work, Disbursed by Frank P. Church, Clerk	783 21
14	11825	Keystone Electric Company, Repairing motor	1 20
	11826	Municipal Engineering Co., Annual subscription	2 00
	11827	Wm. F. Nick & Son, Turpentine and Linseed Oil,	2 25
	11828	Union Ice Company, Ice	2 50
	11829	J. G. Schlindwein, Repairs to harnesses	3 00
	11830	O. C. Thayer, Pipe and elbows	3 00

June—Continued.

TO PAY VOUCHER.

Date.	No.	Of For	Amount.
	11831	Erie Company, Coke	3 01
	11832	Beals & Co., Steel	3 12
	11833	Palace Hardware House, Water filter	3 50
	11834	Erie Window Glass Co., Oil cans and glass	4 50
	11835	Herald Printing & Publishing Co., Books and stationery	6 30
	11836	Lyman Felheim, Meter boxes	6 50
	11837	Erie Steam Bending Works, Pointed stakes	6 50
	11838	Keystone Brass Co., Brass and labor	6 56
	11839	H. F. Watson Company, Coke	6 67
	11840	H. C. Gross, Wood	6 75
	11841	Thomson Meter Company, Repairs to meters	7 46
	11842	A. S. Pinney, Hardware	9 47
	11843	George C. Gensheimer, Ass't. Sec'y., Sundries	9 97
	11844	Erie Machine Shop, Material and labor	10 81
	11845	Central Blacksmith Works, Horse shoeing	13 70
	11846	Wm. Schade, Blasksmithing	17 95
	11847	Walter L. Main, Water rent returned	15 00
	11848	Henry R. Worthington, Valves for engine No. 4	26 10
	11849	Wm. Densmore & Co., Oats and bran	27 65
	11850	E. J. Riblet, Rent of shop and repairing chairs	28 65
	11851	Ashby Printing Co., Books	29 10
	11852	H. C. Dunn, Mgr., Brick	34 45
	11853	Mutual Telephone Company, Rent of telephones	48 00
	11854	Lake City Machine Shop, Material and labor	49 90
	11855	Henry Beckman & Son, Clover seed, brooms, mops, etc.	56 55
	11856	Hays Manufacturing Co., Pipe and fittings	78 75

June—Continued.

TO PAY VOUCHER.

Date.	No.	Of For	Amount.
	11857	W. P. Mason, Analysis of Water	80 00
	11858	Globe Iron Foundry Co., Meter tops, saddles, etc.	82 52
	11859	James L. Firman, Teaming	94 77
	11860	Mehl and Sapper, Hardware	105 86
	11861	Union Oil Works, Oil	151 62
	11862	Erie Mfg. & Supply Co., Tools, waste and packing	178 80
	11863	Erie Hard Wall Plaster Co., Cement	226 00
	11864	The W. L. Scott Company, Coal	1,051 32
	11865	U. S. Cast Iron Pipe & Foundry Co., Cast iron pipe and specials	1,864 46
	11866	Keystone Carriage Works, New wagon and brake	165 00
	11867	Pay Roll—street work, Disbursed by Frank P. Church, Clerk	933 47
21	11868	W. A. Tompkins, Repairing boat	10 00
	11869	John Kolb—Ass't. Sec'y., Sundries	12 49
	11870	Pay Roll—street work, Disbursed by Frank P. Church, Clerk	1,043 20
28	11871	John O. Baker, Lumber and labor	5 28
	11872	Mrs. Orilla Block, Washing towels and making flags	12 00
	11873	John Kolb, Ass't. Sec'y., Sundries	15 17
	11874	Clark Olds, Services as Commissioner—2 mos.	150 00
	11875	G. F. Brevillier, Services as Commissioner—2 mos.	150 00
	11876	Willis B. Durlin, Services as Commissioner—2 mos.	150 00
	11877	Pay Roll—street work, Disbursed by Frank P. Church, Clerk	932 40
	11878	Pay Roll—Office and inspectors, Disbursed by John Kolb, Ass't. Sec'y	725 00
	11879	Pay Roll—pumping station, Disbursed by John Kolb, Ass't. Sec'y	1,016 67
	11880	Locke Regulator Co., Valve	4 00
		Total	$10,536 29

July.

TO PAY VOUCHER.

Date.	No.	Of For	Amount.
5	11881	John Kolb, Ass't. Sec'y., Sundries	33 98
	11882	Pay Roll—street work, Disbursed by Frank P. Church, Clerk	724 36
12	11883	Keystone Brass Co., Material and labor	1 03
	11884	Erie Machine Shops, Machine steel and stud	1 04
	11885	Dispatch-News Company, Advertising	1 10
	11886	Times Publishing Co., Advertising	1 20
	11887	Held, Gorenflo & Co., Advertising	1 40
	11888	Gus J. Miller, Drugs for team	1 70
	11889	Union Iron Works, Material and labor	1 90
	11890	Erie Gas Engine Co., Machine work	2 00
	11891	Superior Stamp Co., Dies for Coupon Machine	2 00
	11892	Joseph Frank, Plans (extra) for Bathing Cabinets	3 00
	11893	Municipal Journal & Engineer, Annual subscription	3 00
	11894	National Meter Co., Repairs to meters	3 00
	11895	Beals & Co., Channel steel	3 06
	11896	W. C. Hull, Horse shoeing	3 20
	11897	A. J. Louch, Canvas Cover	3 50
	11898	Jarecki Manufacturing Co., Pipe, bends and tees	4 13
	11899	Murphy Bros., Sheet tin and repairing oil can	4 20
	11900	J. G. Schlindwein, Repairs to harnesses	4 35
	11901	H. C. Gross, Wood	4 50
	11902	Power Specialty Co., Armored pump Valves	4 80
	11903	N. Y. & Pennsylvania Tel. & Tel. Co., Rent of telephones	6 00
	11904	C. Kessler, Soap, brooms, candles and wicking	6 05
	11905	Union Ice Company, Ice	9 55

July—Continued.

TO PAY VOUCHER.

Date.	No.	Of	For	Amount.
	11906	John Reinhold, Jr.,	Paint, asphaltum and brushes	15 45
	11907	H. F. Watson Company,	Coke	15 92
	11908	E. J. Riblet,	Rent of shop	20 00
	11909	Adolph Schendler,	Repairing cuts in paved streets	16 30
	11910	H. C. Dunn, Mgr.,	Brick	20 80
	11911	A. S. Pinney,	Hardware	22 21
	11912	Henry Beckman & Sons,	Rope, etc.	22 89
	11913	The Crandall Fence & Iron Company,	Lawn settees	25 50
	11914	Mehl and Sapper,	Hardware	32 11
	11915	Erie Engine Works,	Material and labor	32 87
	11916	Clark & Robb,	Flowers at pumping station	37 50
	11917	W. E. Long, collector,	County taxes—6th ward	62 25
	11918	Erie City Rag Warehouse,	Rope	70 00
	11919	Lyman Felheim,	Meter box and lumber	71 09
	11920	The Electric Equipment Co.,	Repairs to electric light plant	77 91
	11921	James L. Firmann,	Teaming	87 65
	11922	Erie Mfg. & Supply Co.,	Valves, waste and packing	112 14
	11923	Globe Iron Foundry Co.,	Meter tops and Lead Pots	114 82
	11924	Erie Sand & Gravel Co.,	Sand and gravel	127 35
	11925	Union Water Meter Company,	Meter and repairs to meters	141 01
	11926	Erie Oil Company,	Oil	144 19
	11927	Hays Manufacturing Co.,	Pipe and fittings	144 81
	11928	Erie Hard Wall Plaster Co.,	Cement	207 36
	11929	George P. Miller, collector	County taxes—4th ward	231 25
	11930	Ashby Printing Co.,	Annual reports	375 55

July—Continued.

TO PAY VOUCHER.

Date.	No.	Of For	Amount.
	11931	The W. L. Scott Company, Coal	518 08
	11932	U. S. Cast Iron Pipe and Foundry Co., Cast iron pipe and specials	1,537 19
	11933	Pay Roll—street work, Disbursed by Frank P. Church, Clerk	826 15
	11934	Lake Shore Rubber Co., Hose	100 00
	11935	John Kolb, Ass't. Sec'y., Sundries	10 40
	11936	W. A. Tompkins, Account contract bathing cabinets	150 00
19	11937	John Kolb, Ass't. Sec'y., Sundries	7 65
	11938	Pay Roll—street work, Disbursed by Frank P. Church, Clerk	814 65
26	11939	John Kolb, Ass't. Sce'y., Sundries	31 92
	11940	W. A. Tompkins, Account contract bathing cabinets	50 00
	11941	Pay Roll—street work, Disbursed by Frank P. Church, Clerk	767 42
		Total	$7,876 44

August

TO PAY VOUCHER.

Date.	No.	Of For	Amount.
1	11942	Pay Roll—Office and Inspectors, Disbursed by John Kolb, Asst. Sec'y	770 00
	11943	Pay Roll—Pumping Station, Disbursed by John Kolb, Asst. Sec'y,	1081 50
2	11944	John Kolb, Asst. Sec'y, Sundries	19 95
	11945	Pay Roll—street work, Disbursed by Frank P. Church, Clerk	776 50
9	11946	Karch Bros., Repairs to connections	1 50
	11947	H. F. Watson Conmpany, Tar, felt and mill board	1 59
	11948	Union Iron Works, Casting	2 00
	11949	Winschel, Boyd, Rodgers Co., Linoleum	2 83
	11950	The Erie City Directory, City Directory	3 00
	11951	Fire and Water, Annual Subscription	3 00

August—Continued.

TO PAY VOUCHER.

Date.	No.	Of For	Amount.
	11952	William Crane, Repairing burglar alarm in office	3 20
	11953	E. J. Klang, Horse shoeing	3 20
	11954	C. Flickinger, Lantern globes, window screen, etc	3 50
	11955	Harry Thompson, Repairs	3 50
	11956	C. Kessler, Brooms	3 68
	11957	John Reinhold, Jr., Oil, stain, brushes, sponges, etc	3 75
	11958	Not issued.	
	11959	Erie Window Glass Co., Paint, oil and glass	3 90
	11960	Herald Printing and Publishing Co., Copies of Rules and Regulations for Swimming Pool	4 00
	11961	Pennsylvania Rubber Company, Piston packing	4 20
	11962	H. C. Gross, Wood	4 50
	11963	F. A. Douglas, Repairing electric bell at pumping station	4 80
	11964	Dr. J. C. Elviage Medicine for horses	6 00
	11965	H. C. Hull, Horseshoeing	6 40
	11966	Joseph McCormick, Repairing cuts in pavements	6 68
	11967	James L. Firman, Teaming	7 64
	11968	Hollands Manufacturing Co., Tools	10 35
	11969	Erie Company, Coke	11 81
	11970	Keystone Brass Co., Material and labor	12 45
	11971	Standard Brick Works, Brick	12 50
	11972	George H. Kraft, Pump and hose	15 00
	11973	H. C. Dunn, Mgr., Brick	15 60
	11974	Lyman Felheim, Lumber	16 45
	11975	Ashby Printing Co., Mounting maps and stationery	18 00
	11976	O. C. Thayer & Son, Clay, pipe and fittings	18 60

August—Continued.

TO PAY VOUCHER.

Date.	No.	Of For	Amount.
	11977	E. J. Riblet, Rent of shop	20 00
	11978	The Electric Equipment Co., Repairs to electric light plant	20 97
	11979	The Griswold Manufacturing Co., Cups for drinking fountains	22 40
	11980	Mayer Bros., Repairing cuts in pavements	27 87
	11981	A. S. Pinney, Hardware	28 76
	11982	W. H. Gingrich, Oats	30 00
	11983	Jarecki Manufaucturing Co., Material and labor	31 34
	11984	Wm. Schade, Blacksmithing	34 55
	11985	Globe Iron Foundry Co., Sleeves, saddles and stop box	47 77
	11986	Constable Bros Co., Material and labor	52 34
	11987	Oscar H. Nick, Plumbing at swimming pool	52 85
	11988	Mehl & Sapper, Hardware	57 92
	11989	Hays Manufacturing Co., Pipe and Fittings	89 07
	11990	Union Oil Works, Oil	128 03
	11991	Erie Mfg. & Supply Co., Waste, packing, etc	130 10
	11992	George Y. Wisner Expenses to Erie, account intake No. 2	165 00
	11993	Union Water Meter Co., Meter and Repairing Meter	187 50
	11994	Oil Well Supply Co., Galvanized Pipe	628 00
	11995	U. S. Cast Iron Pipe & Foundry Co., Cast iron pipe and specials	2,119 65
	11996	Union Ice Company, Ice	9 85
	11997	John Kolb, Asst. Sec'y, Sundries	51 36
	11998	W. A. Tompkins, Account contract bathing cabinets	75 00
	11999	W. A. Tompkins, Account contract bathing cabinets	585 00
	12000	Pay Roll—street work, Disbursed by Frank B. Church, Clerk	804 83
16	12001	John Kolb, Asst. Sec'y, Sundries	3 15

August—Continued.

TO PAY VOUCHER.

Date.	No.	Of For	Amount.
	12002	Pay Roll—street work, Disbursed by Frank P. Church, clerk	812 96
	12003	W. A. Tompkins, Account contract bathing cabinets	300 00
	12004	Pay Roll—street work, Disbursed by Wm. C. Siegel, Clerk	817 56
	12005	John Kolb, Asst. Sec'y, Sundries	6 10
	12006	American Oil Works, Boiler compound	33 98
	12007	Pay Roll—street work, Disbursed by Wm. C. Siegel, Clerk	842 21
		Total	11077 70

September.

TO PAY VOUCHER.

Date.	No.	Of For	Amount.
2	12008	Clark Olds, Services as Commissioner, 2 mos.....	150 00
	12009	G. F. Brevillier, Services as Commissioner, 2 mos.....	150 00
	12010	Willis B. Durlin, Services as Commissioner, 2 mos.....	150 00
	12011	Pay Roll—Office and inspectors, Disbursed by John Kolb, Asst. Sec'y.....	824 98
	12012	Pay Roll—pumping station, Disbursed by John Kolb, Asst. Sec'y.....	1101 00
6	12013	Frank P. Church, Clerk, Sundries	20 78
	12014	Pay Roll—street work, Disbursed by Wm. C. Siegel, Clerk	732 39
	12015	Raymond Lead Co., Pig lead	1272 24
13	12016	Erie Sand and Gravel Co., Sand	1 50
	12017	Erie Machine Shops, Studs and feed cups	1 95
	12018	George B. McIntire, Washers	1 95
	12019	Herald Printing and Publishing Company, Advertising	2 20
	12020	Dispatch-News Company, Advertising	2 40
	12021	Times Publishing Co., Advertising	2 40
	12022	David Schlosser & Sons, Lumber	2 98
	12023	Lake City Machine Shop, Rods and nuts	3 01

September—Continued.

TO PAY VOUCHER.

Date.	No.	Of For	Amount.
	12024	E. J. Klang, Horse shoeing	3 20
	12025	Keystone Brass Co., Brass castings and material	3 41
	12026	H. F. Watson Company, Asbestos, tarred felt and Bd.	3 93
	12027	Held, Gorenflo & Co., Printing postal cards and advertising	4 05
	12028	C. Kessler, Soap and lye	4 10
	12029	H. C. Gross, Wood	4 50
	12030	Erie Window Glass Co., Glass	5 25
	12031	The Smith Premier Typewriter Co., Cleaning machine	6.00
	12032	Jarecki Manufacturing Co., Material and labor	6 32
	12033	F. Schlaudecker, Insurance on bathing cabinets	7 50
	12034	E. A. Steubgen, Agt., Insurance on bathing cabinets	7 50
	12035	Emil Streuber, Tan bark and sole leather	8 36
	12036	W. & L. E. Gurley, Steel tape and spring balance	9 68
	12037	A. S. Pinney, Hardware	11 13
	12038	U. D. Sweigard, Material and labor	13 59
	12039	Ashby Printing Co., Tracing cloth, book and stationery	14 95
	12040	Curtis Johnson & Son, Lumber	16 00
	12041	Henry R. Worthington, Brass stuffing box and accumulator rod	16 12
	12042	Bessemer Limestone Company, Limestone Siftings	18 51
	12043	O. C. Thayer & Son, Cement, fire clay and pipe	18 67
	12044	Union Ice Company, Ice	19 77
	12045	Pennsylvania Company, Freight on limetone	19 94
	12046	E. J. Riblet, Rent of shop	20 00
	12047	Erie Company, Coke	20 38
	12048	Berkenkamp & Schaal, Chairs, stool and use of ambulance	26 00

September—Continued.

TO PAY VOUCHER.

Date.	No.	Of For	Amount.
	12049	Erie Hard Wall Plaster Co., Cement	27 14
	12050	H. C. Dunn, Brick	30 55
	12051	A Dietly, Agt., Oats	33 31
	12052	National Meter Company, Repairing meters	37 25
	12053	Union Water Meter Company, Repairing meters	38 00
	12054	Standard Brick Works, Brick	38 75
	12055	South Erie Iron Works, Meter tops	40 75
	12056	The Constable Bros. Co., Material and labor	41 20
	12057	Mutual Telephone Company, Rent of telephones	48 00
	12058	Union Iron Works, Material and labor	50 10
	12059	The Crandall Fence and Iron Company, Lawn settees	51 00
	12060	Mehl & Sapper, Hardware	68 01
	12061	Pittsburg Meter Company, Meters	90 00
	12062	Hays Manufacturing Co., Pipe, fittings, etc.	114 44
	12063	Erie Oil Company, Oil	141 59
	12064	Erie Mfg. & Supply Co., Waste, packing, gaskets, etc.	145 48
	12065	Globe Iron Foundry Co., Meter tops and stop boxes	145 76
	12066	W. A. Tompkins, Balance account bathing cabinets	215 26
	12067	The J. L. Mott Iron Works, Drinking fountains	267 00
	12068	The W. L. Scott Company, Coal	922 88
	12069	Frank P. Church, Clerk, Sundries	7 70
	12070	Pay Roll—street work, Disbursed by Wm. C. Siegel, Clerk	762 30
20	12071	John Reinhold, Jr., Paint, oil, etc.	6 70
	12072	Robert Boyd & Bro., Oats	8 15
	12073	Lyman Felheim, Lumber	15 75

September—Continued.

TO PAY VOUCHER.

Date.	No.	Of For	Amount.
	12074	The Electric Equipment Co., Repairs to electric light plant	33 10
	12075	John Kolb, Asst, Sec'y, Sundries	37 33
	12076	Pay Roll—street work, Disbursed by Wm. C. Siegel, Clerk	827 20
27	12077	John Kolb, Asst Sec'y, Sundries	7 43
	12078	Pay Roll—street work, Disbursed by Wm. C. Siegel, Clerk	697 15
		Total	9657 92

October.

TO PAY VOUCHER.

Date.	No.	Of For	Amount.
1	12079	Mrs. Gertrude Beckman, Rent of office, account intake No. 2	12 00
	12080	Pay Roll—Office and inspectors, Disbursed by John Kolb, Asst. Sec'y	1008 33
	12081	Pay Roll—pumping station, Disbursed by John Kolb, Asst. Sec'y	1025 00
4	12082	John Kolb, Asst. Sec'y, Sundries	7 34
	12083	Pay Roll—street work, Disbursed by Wm. C. Siegel, Clerk	797 11
11	12084	The Constable Bros Co., Material and labor	1 40
	12085	Palace Hardware House, Hardware	1 50
	12086	Ashby Printing Co., Letter files and repairing index	2 30
	12087	George Carroll & Bro. Co., Lumber	2 32
	12088	Jarecki Manufacturing Co., Pipe and valves	2 37
	12089	The Henesey Mfg. Co., Leather washers	3 00
	12090	C. Kessler, Soap	3 50
	12091	Wm. F. Nick & Son, Asphaltum, oil, etc	3 78
	12092	Erie Heating and Plumbing Co., Material and labor	3 85
	12093	Erie Oil Company, Grease	4 40
	12094	H. C. Gross, Wood	5 00

October—Continued.

TO PAY VOUCHER.

Date.	No.	Of For	Amount.
	12095	Hollands Mfg. Co., Dies	6 00
	12096	N. Y. & Penn'a Tel. & Tel .Co., Rent of telephone	6 00
	12097	John Reinhold, Jr., Lye, stain, asphaltum, etc	7 45
	12098	E. J. Klang, Horse shoeing	8 80
	12099	Eugene Dietzgen Co., Civil Engineer's supplies	10 30
	12100	Union Ice Company, Ice	11 37
	12101	U. D. Sweigard, Lanterns	12 00
	12102	Joseph McCormick, Repairing cuts in paved streets	14 50
	12103	Lyman Felheim, Lumber	14 88
	12104	Hays Manufacturing Co., Pipe and specials	17 05
	12105	R. D. Wood & Co., Nuts for fire hydrants	17 88
	12106	A. S. Pinney, Hardware	18 71
	12107	The Himrod Engraving Co., Letter heads	19 75
	12108	E. J. Riblet, Rent of shop	20 00
	12109	Erie Mfg. & Supply Co., Metal polish, lubricator and cap screws	21 07
	12110	Wm. Densmore & Co., Oats	22 50
	12111	Erie Company, Coke	23 65
	12112	Thomson Meter Co., Repairs to meters	24 80
	12113	H. C. Dunn, Brick	28 60
	12114	Wm. Schade, Blacksmithing	29 27
	12115	Kirschner Bros., Stones for drinking fountains	31 00
	12116	R. T. Walker, Rent of barn	32 00
	12117	Standard Brick Works, Brick	32 50
	12118	Johanneson Manufacturing Co., Furniture—Office of civil engineer	41 25
	12119	The Electric Equipment Co., Repairs to electric light plant	42 13

October—Continued.

TO PAY VOUCHER.

Date.	No.	Of For	Amount.
	12120	Erie Engine Works, Material and labor	55 07
	12121	O. C. Thayer & Son, Cement, pipe and elbows	65 07
	12122	James L. Firman, Teaming	74 66
	12123	Mehl & Sapper, Hardware	78 42
	12124	Globe Iron Foundry Co., Meter tops and plugs	124 72
	12125	Union Oil Works, Oil	176 18
	12126	The W. L. Scott Company, Coal	697 28
	12127	U. S. Cast Iron Pipe & Foundry Co., Cast iron pipe and specials	2101 45
	12128	John Kolb, Asst, Sec'y, Sundries	20 10
	12129	Pay Roll—street work, Disbursed by Wm. C. Siegel, Clerk	847 47
	12130	C. L. Fellows, Engineer Intake No. 2	50 00
18	12131	John Kolb, Asst. Sec'y, Sundries	6 43
	12132	D. P. Murphy, Work on standpipe	71 80
	12133	Pay Roll—street work, Disbursed by Wm. C. Siegel, Clerk	759 76
	12134	The Meehan Boiler and Construction Co., Repairing and painting standpipe	1012 35
25	12135	John Kolb, Asst. Sec'y, Sundries	5 92
	12136	D. P. Murphy, Work on standpipe	9 00
	12137	Specialty Paint Co., Asphaltum	24 50
	12138	Pay Roll—street work, Disbursed by Wm. C. Siegel, Clerk	856 29
		Total	10433 13

November.

TO PAY VOUCHER.

Date.	No.	Of For	Amount.
1	12139	Mrs. Grtrude Beckman, Rent of office, account of Intake No. 2	12 00
	12140	Clark Olds, Services as Commissioner, 2 months	150 00
	12141	G. F. Brevillier, Services as Commissioner, 2 months	150 00
	12142	Willis B. Durlin, Services as Commissioner, 2 months	150 00
	12143	Pay Roll—street work, Disbursed by Wm. Siegel, Clerk	825 35
	12144	Pay Roll—Office and inspectors, Disbursed by John Kolb, Asst. Sec'y	1008 33
	12145	Pay Roll—pumping station, Disbursed by John Kolb, Asst. Sec'y	1025 00
	12146	John Kolb, Asst. Sec'y, Sundries	5 12
8	12147	Erie Sand and Gravel Co., Sand	1 20
	12148	J. O. Baker, Repairs to boat	1 25
	12149	Mrs. Margaret Connelly, Repairs to connections	1 50
	12150	George L. Siegel, Oil meal	2 00
	12151	U. D. Sweigard, Torches	2 10
	12152	Johannesen Mfg. Co., Book rack	2 25
	12153	Thomson Meter Co., Repairs to meter	2 37
	12154	J. G. Schlindwein, Repairing harnesses	2 45
	12155	H. C. Gross, Wood	2 75
	12156	Erie Steam Bending Works, Lumber	3 00
	12157	Wm. F. Nick & Son, Lead and oil	3 15
	12158	G. J. Gebhardt, Blacksmith coal	5 00
	12159	Keystone Brass Co., Material and labor	5 19
	12160	C. Bloeser, Admr. for L. Koster Est., Repairs to connections	5 25
	12161	C. Kessler, Brooms, mops and candles	5 43
	12162	Union Ice Company, Ice	5 98
	12163	E. J. Klang, Horse shoeing	6 40

November—Continued.

TO PAY VOUCHER.

Date.	No.	Of For	Amount.
	12164	The Dispatch Prtg. & Engraving Co., Book and stationery	6 50
	12165	Wm. E. Louch, Hose	8 00
	12166	Union Oil Works, Oil	12 23
	12167	Erie Gas Company, Removing gas pipe out of way of water main	12 85
	12168	The Constable Bros. Co., Repairing skylight, pumping station	13 55
	12169	Union Water Meter Company, Parts of meters	14 40
	12170	H. C. Dunn, Brick	16 25
	12171	Wm. Densmore & Co., Oats	19 00
	12172	Erie Machine Shops, Material and labor	19 44
	12173	E. J. Riblet, Rent of shop	20 00
	12174	Eugene Dietzgen Co., Engineer's supplies	21 40
	12175	Jarecki Manufacturing Co., Material and labor	28 62
	12176	A. S. Pinney, Hardware	29 06
	12177	James L. Firman, Teaming	40 01
	12178	Hays Manufacturing Co., Pipe and fittings	41 72
	12179	Erie Hard Wall Plaster Co., Cement	51 43
	12180	Erie Mfg. & Supply Co., Grease cups, lubricator and packing	56 09
	12181	The Electric Equipment Co., Repairs to electric light plant	63 26
	12182	Standard Brick Works, Brick	67 50
	12183	Mehl & Sapper, Hardware	72 11
	12184	Curtis Johnson & Son, Lumber	82 47
	12185	Erie Window Glass Co., Glass, oil, lead, etc.	82 56
	12186	O. C. Thayer & Son, Fire brick, clay and cement	115 53
	12187	Ashby Printing Co., Books and stationery	121 85
	12188	Globe Iron Foundry Co., Meter tops, sleeves and plugs	132 13

November—Continued.

TO PAY VOUCHER.

Date.	No.	Of For	Amount.
	12189	Erie Oil Company, Oil and grease	152 94
	12190	Pittsburg Meter Company, Meters	161 40
	12191	The W. L. Scott Company, Coal	593 44
	12192	U. S. Cast Iron Pipe & Foundry Co., Pipe and specials	3225 13
	12193	Pay Roll—street work, Disbursed by Wm. Siegel, Clerk	726 98
15	12194	John Kolb, Asst. Sec'y, Sundries	24 73
	12195	W. A. Tompkins, Scaffolding around standpipe	47 00
	12196	Pay Roll—street work, Disbursed by Wm. Siegel, Clerk	615 22
22	12197	John Kolb, Asst. Sec'y, Sundries	40 87
	12198	Specialty Paint Co., Paint	56 59
	12199	Pay Roll—street work, Disbursed by Wm. Siegel, Clerk	663 46
29	12200	D. P. Murphy, Work on standpipe	5 60
	12201	Michael McMahon, Rope	16 59
	12202	Pay Roll—street work, Disbursed by Wm. Siegel, Clerk	515 11
	12203	Pay Roll—Office and inpectors, Disbursed by John Kolb, Asst. Sec'y	1008 33
	12204	Pay Roll—pumping station, Disbursed by John Kolb, Asst. Sec'y	1025 00
		Total	13409 42

December.

TO PAY VOUCHER.

Date.	No.	Of For	Amount.
6	12205	Mrs. Gertrude Beckman, Rent of office, account of Intake No. 2 extension	12 00
	12206	John Kolb, Asst. Sec'y, Sundries	15 49
	12207	Engene Sullivan, Rope	29 85
	12208	American Oil Works, Boiler compound	33 58
	12209	National Lead Company, Lead	369 01
	12210	Pay Roll—street work, Disbursed by Wm. Siegel, Clerk	665 53
13	12211	Union Ice Company, Ice	1 87
	12212	Ashby Printing Co., Stationery	2 15
	12213	Erie Steam Bending Works, Stakes and lumber	2 30
	12214	W. E. Hayes & Co., Chimneys	2 40
	12215	Jarecki Manufacturing Co., Material and labor	3 64
	12216	Papesch Stove & Hardware Co., Stove, account Intake No. 2 extension	3 80
	12217	J. L. Neiner, Repairs to connections	4 50
	12218	H. C. Gross, Wood	5 50
	12219	W. H. Maloney, Not issued	
	12220	E. J. Klang, Horse shoeing	6 40
	12221	Louis J. Baumann, Cleaning and laying carpet	6 56
	12222	Erie Window Glass Co., Paint, oil etc	7 33
	12223	C. Kessler, Soap, brooms and oakum	7 75
	12224	O. C. Thayer & Son, Cement	7 80
	12225	Downing & Flickinger, Insurance	7 81
	12226	L. J. VanAnden & Co., Insurance	7 81
	12227	Thomas M. Hemphill, Insurance	7 81
	12228	Walter Scott & Co., Insurance	7 81
	12229	R. T. Walker, Rent of barn, 2 months	8 00

December—Continued.

TO PAY VOUCHER.

Date.	No.	Of	For	Amount.
	12230	Wm. Schade,	Blacksmithing	12 76
	12231	The Public Grocery Supply Co.,	Use of Horse	13 00
	12232	The Electric Equipment Co.,	Repairs to electric light plant	15 74
	12233	John Reinhold, Jr.,	Paint, polish, etc	16 10
	12234	Dr. J. C. Elviage,	Doctoring horse	18 75
	12235	The Constable Bros. Co.,	Material and labor	19 38
	12236	Standard Brick Works,	Brick	19 50
	12237	Wm. Densmore & Co.,	Oats	20 00
	12238	E. J. Riblet,	Rent of shop	20 00
	12239	Erie Company,	Coke	25 03
	12240	A. S. Pinney,	Hardware	30 81
	12241	Hays Manufacturing Co.,	Pipe, fittings, etc	36 51
	12242	Henry R. Worthington,	Repairing meters	39 45
	12243	Mutual Telephone Company,	Rent of telephones	48 00
	12244	Pittsburg Meter Co.,	Meters	50 00
	12245	Henry Althof,	Wire guards	72 12
	12246	Globe Iron Foundry Co.,	Rings, plugs, sleeves and saddles	72 56
	12247	Erie Mfg. & Supply Co.,	Valves, flue scraper, pump and packing	85 12
	12248	Mehl & Sapper,	Hardware	87 11
	12249	Isador Sobel, P. M.,	Postage	100 00
	12250	Erie Engine Works,	Material and labor	121 63
	12251	Union Oil Works,	Oil	143 34
	12252	R. D. Wood & Co.,	Valves	186 00
	12253	The W. L. Scott Company,	Coal	494 96
	12254	Pay Roll—street work,	Disbursed by Wm. Siegel, Clerk	324 79

December—Continued.

TO PAY VOUCHER.

Date.	No.	Of For	Amount.
20	12255	Mrs. Orilla Block, Washing towels, 6 months	6 00
	12256	John Kolb, Asst. Sec'y, Sundries	15 57
	12257	W. A. Tompkins, Repairs to electric light house and stand pipe	84 00
	12258	Clark Olds, Services as Commission, 2 months	150 00
	12259	G. F. Brevillier, Services as Commission, 2 months	150 00
	12260	Willis B. Durlin, Services as Commission, 2 months	150 00
	12261	Pay Roll—street work, Disbursed by Wm. Siegel, Clerk	272 54
	12262	Pay Roll—Office and inspectors, Disbursed by John Kolb, Ass't Sec'y	1,008 34
	12263.	Pay Roll—pumping station, Disbursed by John Kolb, Ass't. Sec'y	1,008 34
26	12264	Lyman Felheim, Material and labor	3 55
	12265	W. H. Maloney, Trees in park	4 50
	12266	Elizabeth Barham, Repairs to connections	10 66
	12267	Eugene Dietzgen Co., Engineer's supplies	11 12
	12268	Lovell Manufacturing Co., Wire screens	17 50
	12269	A. P. Allen, Oats	20 00
	12270	National Meter Company, Repairing meters	21 00
	12271	Henry Beckman & Sons, Locks, ropes, etc	24 26
	12272	Globe Iron Foundry Co., Stop boxes	26 40
	12273	Pittsburg Meter Co., Meters	62 60
	12274	Mayer Bros., Repairing cuts in pavements	135 42
	12275	Cleveland Trinidad Paving Co., Repairing cuts in pavements	217 39
	12276	Pay Roll—street work, Disbursed by Wm. Siegel, Clerk	287 83
	12277	John Kolb, Asst. Sec'y, Sundries	11 60
		Total	7014 65

RECAPITULATION, 1902.

Number Vouchers Issued.	MONTH	AMOUNTS.
46	January	$ 3,872 85
49	February	3,995 93
52	March	7,322 43
53	April	7,776 38
69	May	24,841 51
59	June	10,536 29
61	July	7,876 44
66	August	11,077 70
69	September	9,657 92
60	October	10,433 13
66	November	13,409 42
73	December	7,014 65
723	Total	$ 117,814 65

DISBURSEMENTS

DEPARTMENT.	ACCOUNT		For the year 1902.	From Beginning of Works to Dec. 31, 1902.
Construction.	Advertising, Books, Stationery, Printing	a	$ 8 65	$ 710 76
	Boiler, No. 1	g		2,235 23
	Boiler, No. 2	g		2,335 38
	Boiler, No. 3	g		2,335 28
	Boiler, No. 4	g		2,335 41
	Boiler, No. 5	g		2,312 83
	Boiler, No. 6	g		2,312 95
	Boiler, No. 7	g		2,313 26
	Boiler, No. 8	g		2,324 23
	Boiler House	g		16,912 67
	Building and Grounds		3,194 01	98,386 67
	Civil Engineering			8,554 80
	Connections		4,103 86	139,024 46
	Drinking Fountains	d	419 96	2,294 82
	Electric Light Plant	a		5,613 64
	Engines and Boilers to Dec. 31, 1902			96,715 79
	Engine, No. 4	b		48,441 43
	Engine, No. 5	k		33,568 49
	Engine House, No. 3	b		21,413 19
	Engine Room Furniture and Fixtures			1,910 26
	Expense	a	13 92	426 01
	Fire Hydrants		193 05	33,419 51
	Fuel	a	23 71	333 89
	Gas Well			8,148 59
	High Service System	h		49,429 95
	H. S. S. Standpipe, No. 2, Iron Work	i		47 02
	H. S. S. Standpipe, No. 2, Stone Work	i		40 22

Construction.	Horse, Wagon and Cartage		366 86	6,160 12
	Intake Pipe, No. 1			49,474 39
	Intake Pipe, No. 2	*b*		140,971 03
	Intake Pipe, No. 2, Extension	*l*	3,309 10	3,309 10
	Interest and Discount			99,420 95
	Light, Oil, Lamps, Wicks, Etc	*a*	45 98	396 34
	Lowering Mains		526 61	5,669 74
	Mains		43,371 25	676,806 32
	Mains, 30-inch			75,956 60
	Meters		949 82	25,682 65
	Office Furniture and Fixtures	*a*	4 38	2,775 99
	Oil and Tallow	*b*		52 25
	Park Fountains			3,244 68
	Railroad Switch and Scales			2,918 92
	Reservoir			123,150 83
	Shop Rent	*a*	123 70	1,389 22
	Steel Plate Chimney, No. 1	*g*		4,177 53
	Stop Valves		2,343 92	47,175 10
	Superintendent's Stores			217 05
	Telephone and Telegraph	*a*		29 00
	Tools		866 61	9,575 58
	Tools, Coal Elevator and Conveyor	*j*		1,922 09
	Tools, Meter Prover	*k*		491 80
	Waste and Packing	*j*	10 29	22 90
	Water Lots	*g*		15,987 29
Maintenance.	Advertising, Books, Stationery, Printing	*e*	1 14	521 97
	Boilers to March 5, 1898	*a*		24,501 08
	Boiler, No. 1		164 62	784 38
	Boiler, No. 2	*h*	167 65	806 11
	Boiler, No. 3	*h*	146 05	714 42
	Boiler, No. 4	*h*	148 44	733 32

a Accounts opened in 1891.
b Accounts opened in 1892.
c Accounts opened in 1893.
d Accounts opened in 1894.
e Accounts opened in 1895.
g Accounts opened in 1897.
h Accounts opened in 1898.
i Accounts opened in 1899.
j Accounts opened in 1900.
k Accounts opened in 1901.
l Accounts opened in 1902.

DISBURSEMENTS—Continued.

DEPARTMENT.	ACCOUNT.		For the Year 1902.	From Beginning of Works to Dec. 31, 1902.
Maintenance.	Boiler, No. 5	*h*	150 82	712 55
	Boiler, No. 6	*h*	149 55	693 58
	Boiler, No. 7	*h*	153 75	656 81
	Boiler, No. 8	*h*	155 65	690 10
	Boiler House	*h*	111 94	755 07
	Building and Grounds	*a*	2,745 72	21,576 73
	Connections		2,394 89	25,308 01
	Drinking Fountains	*d*	154 33	453 48
	Electric Light House	*c*	180 15	3,808 11
	Electric Light Plant	*b*	551 36	1,995 74
	Engines to Dec. 31, 1892		.....	13,402 04
	Engine, No. 1	*c*	22 05	166 78
	Engine, No. 2	*c*	11 34	481 99
	Engine, No. 3	*c*	883 61	5,731 52
	Engine, No. 4	*d*	792 26	6,263 96
	Engine, No. 5	*i*	614 66	1,871 22
	Engine House, No. 1	*c*	169 60	2,010 38
	Engine House, No. 2	*c*	117 44	8,338 11
	Engine House, No. 3	*c*	142 38	2,213 98
	Engine Room Furniture and Fixtures	*a*	49 81	610 45
	Expense	*a*	40 22	415 50
	Fire Hydrants	*a*	454 66	4,246 68
	Fuel	*a*	23 70	288 69
	High Service System	*i*	.....	105 45
	Horse, Wagon and Cartage		538 26	6,410 33
	Intake Pipe, No. 1	*a*	.....	165 26
	Intake Pipe, No. 2	*j*	.....	33 03

	Light, Oil, Lamps, Wicks, etc.	a	46 85	272 81
	Mains		3,911 10	30,808 96
	Mains, 30-inch	a	.....	910 49
	Meters		607 68	7,365 98
	Office Furniture and Fixtures	a	95 26	1,030 09
	Oil and Tallow	b	11 08	37 35
	Railroad Switch and Scales	a	.....	1,220 42
	Reservoir		891 93	37,058 93
	Shop Rent	a	123 70	1,388 98
	Standpipe	c	1,620 81	5,911 32
	Steel Plate Chimney, No. 1	h	124 52	328 65
	Stop Valves		508 38	7,138 34
	Superintendent's Stores		.....	396 52
	Telephone and Telegraph	j	.....	53
	Tools		1,589 60	12,365 11
	Tools, Coal Elevator and Conveyor	k	8 71	19 36
	Waste and Packing	b	87 45	421 13
Operating.	Advertising, Books, Stationery, Printing	a	10 11	2,111 52
	Building and Grounds	b	1,374 74	13,550 02
	Drinking Fountains	g	142 71	677 94
	Electric Light House	h	.....	353 84
	Electric Light Plant	b	.....	119 48
	Engineers and Firemen		9,361 62	172,098 55
	Engineers' Stores		.....	2,348 57
	Expense	a	105 37	1,338 90
	Fire Hydrants	b	447 03	2,787 70
	Flushing Sewers	g	2 88	51 40
	Fuel		8,599 22	199,110 65
	Horse, Wagon and Cartage	d	.....	54 81
	Inspectors	c	2,641 02	24,514 76
	Insurance		59 01	1,752 87

a Accounts opened in 1891. *d* Accounts opened in 1894. *h* Accounts opened in 1898. *k* Accounts opened in 1901.
b Accounts opened in 1892. *e* Accounts opened in 1895. *i* Accounts opened in 1899. *l* Accounts opened in 1902.
c Accounts opened in 1893. *g* Accounts opened in 1897. *j* Accounts opened in 1900.

DISBURSEMENTS—Continued.

DEPARTMENT.	ACCOUNT.		For the year 1902.	From Beginning of Works to Dec. 31, 1902.
Operating.	Light, Oil, Lamps, Wicks, Etc.	*a*	58 69	661 12
	Machinists	*j*	2,010 14	4,363 61
	Meters	*b*	385 28	4,976 34
	Oil and Tallow		1,798 15	22,064 97
	Rent of Office	*b*	.....	706 95
	Reservoir	*b*	494 81	5,269 95
	Stop Valves	*e*	77	578 20
	Taxes, U. S., State, County and School		302 55	3,601 13
	Telephone and Telegraph	*a*	221 96	2,219 90
	Tools	*a*	.....	946 02
	Turning On and Off Water	*g*	184 47	1,422 68
	Waste and Packing		1,192 04	10,787 54
	Water Rent Returned		25 54	1,164 79
Accounting.	Advertising, Books, Stationery, Printing		360 68	12,597 50
	Expense		27 32	14,968 73
	Light, Oil, Lamps, Wicks, Etc.	*k*	.....	1 56
	Postage		264 53	8,327 01
	Salaries		7,105 21	220,988 58
Sundries.	City of Erie, Board of Commissioners of Sinking Fund		.....	170,500 00
	City of Erie		.....	19 23
Legal.	Court Costs		.....	490 42
	Counsel Fees		.....	4,380 49
	Damages	*j*	.....	395 63
	Expenses		.....	189 02
			$117,814 65	$3,037,608 39

a Accounts opened in 1891. *d* Accounts opened in 1894. *h* Accounts opened in 1898. *k* Accounts opened in 1901.
b Accounts opened in 1892. *e* Accounts opened in 1895. *i* Accounts opened in 1899. *l* Accounts opened in 1902.
c Accounts opened in 1893. *g* Accounts opened in 1897. *j* Accounts opened in 1900.

RECAPITULATION.

DEPARTMENT.	FOR THE YEAR 1902.			From Beginning of Works to December 31, 1902.
	Amount.	Pro Rata.	Total.	
Construction	$ 58,084 30	.508220	$ 59,875 68	$1,880,974 21
Maintenance	20,238 75	.177079	20,863 12	244,141 80
Operating	28,440 94	.248849	29,318 11	479,634 21
Accounting	7,525 64	.065850	7,757 74	256,883 38
Sundries	.....	.....	.....	170,519 23
Legal	.....	.....	.....	5,455 56
Totals	$ 114,289 63	.999998 +	$ 117,814 65	$3,037,608 39

BALANCE SHEET.

ASSESSED ACCOUNTS.

Ward.	Balance from Dec. 31, 1901.	Assessm'ts.	Additions.	Penalties.	Balance to Jan. 1, 1903.	Totals.	Balance from Dec. 31, 1901.	Deductions.	Cash	Balance to Jan. 1, 1903.
1	$ 53 00	$ 15,781 25	$ 709 08	$ 79 76	$ 21 74	$ 16,644 83	$ 26 77	$ 1,914 37	$ 14,664 31	$ 39 38
2	101 44	22,670 40	868 27	79 93	50 17	23,770 21	49 30	927 86	22,735 85	57 20
3	128 02	25,677 87	990 71	92 37	44 29	26,933 26	71 46	1,101 16	25,665 77	94 87
4	82 79	21,163 08	744 89	87 46	32 85	22,111 07	58 06	1,768 88	20,252 79	31 34
5	72 75	11,554 18	552 01	50 32	20 59	12,249 85	26 14	667 74	11,516 75	39 22
6	80 84	12 511 52	589 09	54 17	17 72	13,253 34	19 02	621 48	12,594 52	18 32
7	42 85	1,359 89	199 52	12 01	5 23	1,619 50	7 54	256 85	1,345 30	9 81
Total..	$ 561 69	$110,718 19	$ 4,653 57	$ 456 02	$ 192 59	$116,582 06	$ 258 29	$ 7,258 34	$ 108,775 29	$ 290 14

METER ACCOUNTS.

1	$ 841 43	$ 3,529 14	$ 23 86	$ 12 69	$.....	$ 4.407 12	$.....	$.....	3,638 86	$ 798 26
2	4,146 56	16,776 56	202 69	35 38	82	21,162 01	82	32 76	17,227 34	3,901 09
3	1,601 94	6,695 52	12 71	17 61	1 48	8,329 26	.....	17 58	6,456 48	1,855 20
4	470 35	1,637 53	5 47	1 36	.....	2,114 71	.....	17 79	1,763 72	333 20
5	475 15	2,356 98	19 52	3 94	.....	2,855 59	.....	.....	2,364 27	491 32
6	128 94	610 39	33 42	3 77	.....	776 52	.....	.....	675 13	101 39
7	211 69	1,083 55	2 81	2 80	....	1,300 85	.....	.....	967 38	333 47
Total..	$7,876 06	$ 32,689 67	$ 300 48	$ 77 55	$ 2 30	$ 40,946 06	$ 82	$ 68 13	$ 33,093 18	$ 7,783 93

SPECIAL PERMITS.

1	.....	$ 15 82	.....	.....	.....	$ 15 82	.....	.....	$ 15 82	.....
2	.....	7 75	.....	.....	.....	7 75	.....	.....	7 75	.....
3	.....	25 52	.....	.....	.....	25 52	.....	.....	25 52	.....
4	.....	62 10	.....	.....	.....	62 10	.....	.....	62 10	.....
5	.....	1 50	.....	.....	.....	1 50	.....	.....	1 50	.....
6	.....	16 00	.....	.....	.....	16 00	.....	.....	16 00	.....
7	.....	38 25	.....	.....	.....	38 25	.....	.....	38 25	.....
Total..	.....	$ 166 94	.....	.....	.....	$ 166 94	.....	.....	$ 166 94	.....

BUILDING PERMITS.

1	.....	309 24	.....	.....	.....	$ 309 24	.....	.....	$ 309 24	.....
2	.....	125 20	.....	.....	.....	125 20	.....	.....	125 20	.....
3	.....	408 06	.....	.....	.....	408 06	.....	.....	408 06	.....
4	.....	218 67	.....	.....	.....	218 67	.....	.....	218 67	.....
5	.....	94 32	.....	.....	.....	94 32	.....	.....	94 32	.....
6	.....	65 45	.....	.....	.....	65 45	.....	.....	65 45	.....
7	.....	28 76	.....	.....	.....	28 76	.....	.....	28 76	.....
Total..	.....	$ 1,249 70	.....	.....	.....	$ 1,249 70	.....	.....	$ 1,249 70	.....
Water..	$8,437 75	$144,824 50	$ 4,954 05	$ 533 57	$ 194 89	$158,944 76	$ 259 11	$ 7,326 47	$ 143,285 11	$ 8,074 07

PLUMBING ACCOUNTS

1	45 32	47 35	.....	.....	.....	$ 92 67	.....	$.....	$ 92 67	$.....
2	749 44	2,191 63	.....	.....	.....	2,941 07	.....	2 67	2,846 35	92 05
3	557 91	578 41	.....	.....	.....	1,136 32	.....	.....	557 21	579 11
4	.....	281 62	.....	.....	.....	281 62	.....	.....	274 51	7 11
5	.....	6 82	.....	.....	.....	6 82	.....	.....	.....	6 82
6	2 15	9 00	.....	.....	.....	11 15	.....	.....	9 00	2 15
7	6 00	45 99	.....	.....	.....	51 99	.....	.....	46 56	5 43
Total	1,360 82	3,160 82	.....	.....	.....	$ 4,521 64	.....	$ 2 67	$ 3,826 30	$ 692 67
Grand Total	9,798 57	$147,985 32	$ 4,954 05	$ 533 57	$ 194 89	$163,466 40	$ 259 11	$ 7,329 14	$ 147,111 41	$ 8,766 74

1902. **STATEMENT OF ACCOUNT WITH THE CITY OF ERIE, PENN'A.** 1902.

CITY OF ERIE, PENN'A.—Dr.						
INTEREST—On balances in Second National Bank from Oct. 1, 1901, to Dec. 31, 1902				794 03		
WATER—City Hall			276 58			
Engine Houses			233 40			
Fire Hydrants			36,850 00			
Flushing Sewers		115 00				
Settling filling in sewer trench		325 50	440 50			
Fountains—Drinking		187 50				
Fountains—Park		1,251 05				
Fountains—Lake Side Park		150 00	1,588 55			
Parks—Central, East	50 00					
Parks—Central, West	50 00	100 00				
Parks—Lake Side, East	57 10					
Parks—Lake Side, West	72 00	129 10	229 10			
Sprinkling—State street bet. State and Dock		140 80				
Sprinkling—Streets by Supt. of Streets		6 34	147 14			
SUNDRIES—Building Sewer, West Front bet. Chestnut and Walnut streets		135 44				
Laying Main Pipe for Municipal Hospital		92 84	228 28	39,993 55	40,787 58	
Balance					548,579 20	589,366 78
CREDITS.						
BALANCE			567,113 73			
INTEREST—To December 31, 1902			21,053 05			
RENT—Of Offices, one year			1,200 00			589,366 78

Balance due the City of Erie, Penn'a., December 31, 1902 ..... 548,579 20

RESOURCES—PLANT NORTH OF FRONT STREET—					
Buildings and Grounds including Piers to Intake No. 1...		117,697 95			
Boiler House from January 1st, 1896.....		17,176 97			
Engine House No. 3 from January 1st, 1892.....		21,591 35	156,466 27		
Boilers from January 1st, 1896.....		18,881 54			
Engines and Boilers to December 31, 1891.....		107,309 35			
Engine No. 4 from January 1, 1892.....		49,147 09			
Engine No. 5 from January 1, 1898.....		34,031 72	209,369 70		
Electric Light Plant.....			5,711 28		
Engine Room Furniture and Fixtures.....			2,067 27		
Tools—Coal Elevator and Conveyor from January 1, 1900..			1,947 34		
Including Machine Shop from January 1, 1901.....			2,448 59		
Meter Prover from January 1, 1900.....			500 21		
Intake Pipe No. 1.....		55,568 44			
Intake Pipe No. 2 from January 1, 1892.....		143,826 35			
Intake Pipe No. 2 Extension from January 1, 1902.....		3,397 57	202,792 36		
Railroad Switch and Scales.....			3,262 09		
Steel Plate Chimney No. 1 from January 1, 1896.....			4,245 44		
Water Lots from January 1, 1895.....			16,151 00	614,961 55	
PLANT SOUTH OF FRONT STREET—					
Connections		147,004 64			
Drinking Fountains		2,330 80			
Fire Hydrants		34,978 66			
High Service System from January 1, 1898.....		50,143 68			
Mains	724,518 37				
Main, 30-inch	83,289 35	807,807 72			
Meters		26,466 03	1,118,590 60		
Stop Valves		49,859 07	2,821 01		
Office Furniture and Fixtures			137,629 35	1,259,040 96	
Reservoir				1,874,002 51	
PERSONAL—Accounts—Assessed	290 14				
Accounts—Meter	7,783 93	8,074 07			
Accounts—Plumbing		692 67	8,766 74		
CASH—In hands of Treasurer City of Erie.....			45,855 87	54,622 61	1,928,625 12
LIABILITIES—ACCOUNTS—City of Erie, Penn'a.....			548,579 20		
Credits on Assessed		192 59			
Credits on Meter		2 30	194 89	548,774 09	
Balance				1,379,851 03	1,928,625 12

ASSESSMENTS FOR 1903.

	WARDS.														TOTALS.	
	First.		Second.		Third.		Fourth		Fifth.		Sixth.		Seventh.			
	No.	Amount	No.	Amount	No.	Amount	No.	Amount	No.	Amount	No.	Amount	No.	Amount	No.	Amount.
Air Pumps	13	$ 45 00	33	$ 99 00	25	$ 75 00	16	$ 51 00	9	$ 30 00	8	$ 27 00	1	$ 3 75	105	$ 330 75
Aquariums	...	...	...	...	1	10 00	...	...	...	...	...	...	...	...	1	10 00
Automobiles	1	2 00	...	...	2	4 00	9	18 00	1	2 00	...	...	...	...	13	26 00
Bakeries	1	5 00	6	31 24	4	24 56	3	16 24	3	15 00	9	45 20	...	...	26	137 24
Banks	2	15 00	...	...	1	10 00	2	10 00	...	...	...	...	...	...	5	35 00
Barber Chairs	25	72 00	37	114 00	51	144 00	31	88 00	19	58 00	14	40 00	...	...	177	516 00
Bath Tubs	437	1297 50	453	1326 00	914	2776 50	733	2084 00	251	764 00	275	808 00	17	61 25	3080	9117 25
Billiard Tables	6	6 00	16	16 00	12	12 00	5	5 00	6	6 00	3	3 00	...	...	48	48 00
Blacksmith Fires	3	12 50	8	32 50	10	40 00	6	25 00	4	20 00	1	5 00	...	...	32	135 00
Boat Houses	1	10 00	...	...	...	...	1	10 00	...	...	...	...	...	...	2	20 00
Bonds	5	55 36	3	33 41	3	12 65	6	7 35	10	35 97	10	35 34	8	545 28	45	725 36
Bottling Works	1	5 00	2	16 00	...	...	...	...	...	...	...	...	...	...	3	21 00
Bowling Alleys	1	5 00	2	10 00	1	5 00	1	5 00	2	10 00	1	5 00	...	...	8	40 00
Churches and Sunday Sch'ls	4	5 33	9	15 04	18	32 07	8	16 70	3	5 02	8	14 72	1	2 09	51	90 97
City Parks	3	107 10	...	...	...	...	3	192 00	...	...	...	...	...	...	6	299 10
Club Rooms	5	15 00	8	36 00	5	21 00	10	38 00	2	10 00	2	8 00	...	...	32	128 00
Cows	9	6 75	8	5 00	6	4 50	6	4 50	27	19 75	5	3 75	3	2 82	64	47 07
Eating Houses	4	19 67	7	31 67	21	96 37	10	36 68	3	8 33	6	10 01	...	...	51	202 73
Elevators	1	120 00	3	10 00	1	60 00	1	6 00	...	...	...	...	...	...	6	196 00
Engine Houses	1	5 00	1	5 00	1	10 00	1	5 00	2	10 00	2	10 00	...	...	8	45 00
Engine, Gas, Horse Power	42	37 00	46	42 50	81	76 50	11	17 50	33	24 50	22	17 00	...	...	235	215 00
Engine, Steam, Horse Pow.	21	27 50	139	217 02	36	64 00	50	70 62	67	79 95	5	7 50	30	53 75	348	520 34
Total Engines, Horse Power	63	64 50	185	259 52	117	140 50	61	88 12	100	104 45	27	24 50	30	53 75	583	735 34
Families	1632	6517 35	2711	10819 99	2139	8530 71	1812	7237 35	1491	5953 33	1623	6468 01	109	541 67	11516	46068 41
Fish Hatchery	...	...	...	...	...	...	1	400 00	...	...	...	...	...	...	1	400 00
Fish Markets	2	15 00	2	10 00	...	...	...	...	...	...	1	5 00	...	...	5	30 00
Fish Ponds	...	...	...	...	...	...	1	30 00	...	...	...	...	...	...	1	30 00

Fountains	6	775 52	....	.....	2	8 00	3	644 53	2	16 00	....	.....	....	.....	13	1444 05
Fountains, Drinking	2	30 00	2	30 00	1	15 00	2	30 00	2	30 00	1	15 00	2	37 50	12	187 50
Fountain Cuspidors	....	.....	6	18 00	12	36 00	2	6 00	1	3 00	....	.....	....	.....	21	63 00
Freight Houses	....	.....	1	15 00	1	5 00	....	.....	....	.....	....	.....	....	.....	2	20 00
Glass Washers	....	.....	....	.....	1	18 00	....	.....	....	.....	....	.....	....	.....	1	18 00
Greenhouses	....	.....	.....	.....	..	.....	4	10 35	4	10 66	4	2 50	5	16 30	17	39 81
Hand Basins	475	393 77	562	493 32	1186	1005 36	908	745 35	180	156 17	253	224 68	19	19 59	3583	3038 24
Heating Boilers, H. P.	208	46 09	510	76 84	581	108 58	509	127 25	228	46 35	214	26 85	104	32 49	2354	464 45
Horses	134	182 00	227	310 00	405	536 00	276	350 00	255	355 00	236	328 66	23	41 25	1556	2102 91
Laundries	.....	.....	3	15 00	3	15 00	2	10 00	....	.....	....	.....	....	.....	8	40 00
Libraries	1	5 00	....	.....	....	.....	....	.....	....	.....	....	.....	.....	.....	1	5 00
Lodging Rooms	171	163 00	214	202 16	277	275 68	224	224 00	30	26 00	67	37 82	10	12 50	993	941 16
Meat Markets	8	36 00	18	101 00	14	78 00	14	60 00	10	51 00	9	48 00	....	.....	73	374 00
Milk Depots	1	5 00	....	.....	....	.....	2	10 00	...	.....	....	.....	....	.....	3	15 00
Offices	85	264 87	94	397 50	97	312 00	63	258 00	4	12 00	2	8 00	.	.....	345	1252 37
Opera Houses	....	.....	...	.....	....	.....	1	10 00	.....	.....	...	.....	....	.....	1	10 00
Photograph Rooms	....	.....	3	15 00	5	25 00	2	10 00	1	5 00	2	10 00	....	.....	13	65 00
Printing Offices	3	30 00	3	15 00	4	35 00	1	5 00		.....	....	.....	....	.....	11	85 00
Public Halls	8	40 00	11	53 33	10	55 00	6	30 00	5	25 00	5	21 67	....	.....	45	225 00
Saloons	13	65 00	39	195 00	24	120 00	20	100 00	11	55 00	8	40 00	1	6 25	116	581 25
School Scholars	1369	125 90	1873	117 61	2174	188 94	805	78 50	1307	114 57	1075	79 83	....	.....	8603	705 35
Slaughter Houses	....	.....	1	8 00	....	.....	...	.....	4	20 00	2	16 00	....	.....	7	44 00
Steamer U. S. Michigan	...	.....	....	.....	....	.....	1	30 00	...	.....	....	.....	..	.....	1	30 00
Stores	59	233 00	159	598 00	201	856 00	90	351 00	45	145 00	46	158 00	1	3 75	601	2344 75
SPRINKLERS Adjoining Lot	31	91 50	24	75 10	36	114 35	37	116 00	12	35 13	6	19 00	....	.....	146	451 08
Curb	81	309 00	52	147 80	127	401 96	174	599 95	15	44 73	27	89 28	2	5 62	478	1598 34
Hydrant	39	127 87	53	142 15	54	192 67	81	279 42	31	110 20	49	184 40	4	19 34	311	1056 05
In Hous	71	228 72	104	342 12	54	175 65	61	197 65	65	212 11	73	247 30	3	15 24	431	1418 79
Lawn	55	147 46	74	210 46	129	403 26	122	342 15	74	200 82	106	262 84	14	42 92	574	1609 91
Sill Cock	531	1410 02	648	1726 61	999	2571 29	789	2007 77	615	1754 42	662	1655 88	56	185 10	4300	11311 09
Total Sprinklers	808	2314 57	955	2644 24	1399	3859 18	1264	3542 94	812	2357 41	923	2458 70	79	268 22	6240	17445 26
Urinals	43	160 30	76	278 83	74	266 16	53	206 84	18	89 67	27	70 83	...	.....	291	1072 63

ASSESSMENTS FOR 1903—Continued.

	WARDS.														TOTALS.	
	FIRST.		SECOND.		THIRD.		FOURTH.		FIFTH.		SIXTH.		SEVENTH.			
	No.	Amount	No.	Amount	No.	Amount	No.	Amount	No.	Amount	No.	Amount	No.	Amount	No.	Amount.
Wash Tubs	99	136 67	46	66 33	311	437 66	318	441 00	15	21 00	49	55 00	2	3 75	840	1161 41
Wash Tubs, Revolving	....	.....	....	.....	3	15 00	4	20 00	....	.....	....	.....	....	.....	7	35 00
Total Wash Tubs	99	136 67	46	66 33	314	452 66	322	461 00	15	21 00	49	55 00	2	3 75	847	1196 41
Water Closets, Closing	971	2872 97	1387	4159 50	2071	6072 16	1407	3866 00	536	1539 00	630	1843 50	26	90 63	7028	20443 66
Water Closets, Non Closing	7	52 00	27	72 00	22	72 34	9	51 00	1	6 00	....	.....	....	.....	66	253 34
Total Water Closets	978	2924 87	1414	4231 50	2093	6144 50	1416	3917 00	537	1545 00	630	1843 50	26	90 63	7094	20697 00
Warehouses	....	.....	2	10 00	....	.....	....	.....	1	3 00	....	.....	....	.....	3	13 00
Water Motors	....	.....	1	1 67	5	16 01	4	29 99	....	.....	3	5 02	....	.....	13	52 69
Water Troughs	....	.....	4	40 00	1	10 00	2	15 00	8	80 00	2	20 00	.	.....	17	165 00
Work Shops	17	69 00	45	165 50	56	185 00	32	102 00	10	30 00	12	39 00	1	3 75	173	594 25
Yacht	....	.....	....	....	....	.....	1	3 00	....	.....	....	.....	...	.....	1	3 00
Grand Totals for 1903	6708	16406 62	9763	22969 20	12271	26634 93	8756	21741 69	5423	12248 68	5565	13021 59	442	1746 59	48928	114769 30
Grand Totals for 1902	6226	15599 75	9671	22665 44	11816	25641 70	8340	21103 81	5222	11256 77	5336	12451 65	396	1331 76	47007	110050 88
Total Gain for 1903	482	806 87	92	303 76	455	993 23	416	637 88	201	991 91	229	569 94	46	414 83	1921	4718 42

Reservoir.

RATES FOR CITY WATER.

Approved by Select Council, August 19, 1895.—Approved by Common Council, September 16, 1895.—Approved by the Mayor, September 21, 1895.

AND AS AMENDED AND APPROVED NOVEMBER 25, 1899.

Are All Annual Except as Otherwise Indicated, and Payable Quarterly in Advance, as Follows:

First Quarter—January, February, March—January 1st.
Second Quarter—April, May, June—April 1st.
Third Quarter—July, August, September—July 1st.
Fourth Quarter—October, November, December—October 1st.

If the rents for any quarter are not paid within the *first month thereof, five per cent.* may be added. If payment is not made by the 15th day of February, May, August and November of each quarter, the water may be turned off from the premises, and shall not be turned on again without the consent of the Commissioners of Water Works, until all back rents and penalties are paid, and the further sum of one ($1.00) dollar.

Acetylene Gas Machnes, for each 50 light machine or less	$ 2 00
Air Pump	3 00
Automobile	2 00
Bath Tub—Private (one family) first tub	3 00
Bath Tub—Private (one family) each additional tub	1 50
Bath Tub—Public, each tub	5 00
Bakery, per barrel of flour used (but no charge less than $5)	01
Barber Shop, first chair, including hand basin	4 00
Barber Shop, each additional chair, including hand basin	2 00
Billiard Tables, each	1 00

Billiard Tables, when floor is carpeted, one-half the above rate

Blacksmith Fire, first fire	5 00
Blacksmith Fire, each additional fire	2 50
Boarding House, (in addition to family rates) per room	1 00
Building Purposes, per bushel of lime; to be paid for before work is begun	02
Butcher Stalls	3 00 to 15 00
Charitable Institutions, one-third annual rates.	
Cow	75
Condensing Boiler for Steam Heating, (per season of 6 months) per horse power	25
Eating Houses	5 00 to 25 00
Family	4 00
Fire Protection Fixtures, testing same, thirty (30) minutes or less	3 00
Fire Protection Fixtures, testing same, one (1) hour or less, but more than thirty (30) minutes	5 00
Flushing Sewers, settling earth in ditches or purposes of like nature, per hour, or fractional part of an hour, each	5 00
Gas Engines, five-h rse power or less	5 00
Gas Engines, for each additional horse power	1 00
Gas Engines, when water is used over and over again, from tank prepared for the purpose, one-half the above rates.	
Hand Basins in dwellings, hotels and schools, first basin	$ 1 00
Hand Basins in dwellings, hotels and schools, each additional basin	50
Hand basins in offices, stores and blocks, each	1 00
Hotels, (in addition to family rates) per room	1 00
Laundry, shop	5 00
Laundry, wash tub, stationary, each	2 00
Laundry, revolving washer, each	5 00
Livery Stable, per horse	2 00
Offices	3 00 to 10 00
Private Stable, one or two horses	2 00
Private Stable, each additional horse over two	1 00
Printing Offices	5 00 to 30 00
Public Halls	5 00 to 25 00
Saloons	5 00 to 25 00
School, per pupil (in addition to fixtures)	10
Slaughter Houses	5 00 to 50 00
Sleeping Rooms, each	1 00
Sprinkling Streets or Lawns with Hose, per Season:	
Corner lot, 41 feet front or less	5 00
Inside lot, 41 feet front or less	3 00
For each additional foot front to either corner or inside lot	05
Steam Engines, 10 hours per day, each Horse Power	2 50
Stores	3 00 to 15 00
Urinal, private, self-closing, (one family)	2 00
Urinal, private, not self-closing (one family)	6 00
Urinal, public, self-closing	3 00
Urinal, public, not self-closing	10 00
Urinal, private or public, continuous flow	10 00 to 30 00

Wash Tub, Stationary, first tub (one family)	2 00
Wash Tub, Stationary, each additional tub, (one family)	1 00
Water Closet, pan or tank, (one family) private.....	3 00
Water Closet, pan or tank, (one family) each additional water closet	1 50
Water Closet, pan or tank, public, each.....	5 00
Water Closet, hopper, (one family) private, for each water closet	6 00
Water Closet, hopper, public, for each water closet....	10 00
Work Shop, ordinary use	3 00 to 5 00

Sprinkling for any purpose will ONLY be allowed on premises where water is taken and paid for, for domestic or other inside use. The sprinkling season is from May 1st to November 1st, in each year.

There is no fractional part of a sprinkling season.

It will cost as much to sprinkle but once at any time during the sprinkling season as it will to sprinkle each day, at the prescribed hours, during the entire season.

Sprinkling must be confined to the hours between 5 and 8 A. M., 12 and 1 P. M. and 5 and 8 P. M., nor during said intervals more than one hour at a time. Persons who exceed one hour may be charged at fountain rates or held liable for violation of the rules, at the option of the Commissioners.

The inside diameter of hose used for sprinkling purposes must not be more than three-quarters of an inch, and the inside diameter of the orifice to the nozzle of the same must not be more than one-quarter of an inch. The use of leaky or defective hose is prohibited.

No person will be allowed to sprinkle adjoining or opposite premises, nor to use the water from any hose attachment, or through any hose for any purpose not authorized by the Commissioners. All sprinkling devices not held in the hand when used shall be classed as fountains, or fountain jets, and assessed accordingly, *but not less than double sprinkling rates.*

Fountains, fountain jets, etc., will be assessed according to the inside diameter of its principal part or parts, and for a continuous flow during the entire sprinkling season.

Hose must not be used for cleaning streets or street gutters, for washing away collections of leaves, heaps of dirt or offal, or flooding streets.

Sprinkling fixtures, to which hose can be attached, no matter where located on any premises, makes said premises assessable for sprinkling.

All plumbing from the curb line inward must be done by a licensed plumber.

Water fixtures will be assessed for each and every purpose available, and for each family or establishment within the enclosure or separated only by a door, gateway or other means of easy communication.

No abatement of charges shall be allowed for vacancy of premises *except from the date that notice has been given at the office of the Commissioners of Water Works that they are unoccupied.*

The Commissioners may limit or stop the supply of water in cases of emergency, and shut it off for repairs or extensions, they being the judges of the time and necessity. Neither the Commissioners nor the City of Erie shall be liable in damages for any insufficient supply of City Water.

For each and every violation of the rules and regulations of the Water Works, the offending party will be subject to a fine of not less than five nor more than fifty dollars.

METER RATES.

Twenty (20) cents for each one thousand (1,000) gallons for the first Twenty-five Thousand (25,000) gallons, and Four (4) cents for each one Thousand (1,000) gallons consumed thereafter during each current quarter.

PROVIDED, The minimum receipts from each meter shall be as follows:

¾ inch or less	$ 3 75	1 inch	$ 4 50
1½ inch	6 25	2 inch	10 00
3 inch	18 75	4 inch	38 75
6 inch	$100 00		

TERMS: All water sold by Meter Measurement must be paid for on or before THE TENTH DAY OF THE FIRST MONTH OF EACH QUARTER. All Meter accounts remaining unpaid at the close of business on the 10th day of said month, shall have Five Per Centum added thereto. On the 15th day of said month, WATER MAY BE TURNED OFF from the property whose meter account is unpaid, and will not be again turned on until all arrearages and penalties are paid, and the further sum of One ($1.00) Dollar.

STATEMENT OF WORK DONE BY INSPECTOR NO. 1 IN 1902.

MONTHS.	TURNED OFF ACCOUNT.			TURNED ON ACCOUNT.		NEW HOUSES.		FIXTURES.						TOTALS.
	Unpaid.	Vacancies.	Leaks and Waste.	Paid.	Occupied.	Building Purposes.	Completed.	Complaints.	Frozen.	Installed.	Removed.	Leaks and Waste.	Vacancies.	
January	.....	1	1	.....	25	2	12	5	5	90	57	5	...	203
February	1	.....	1	.....	26	4	13	6	47	85	22	4	634	843
March	.....	2	2	.....	15	....	11	3	15	70	29	6	.....	153
April	.....	.....	.....	.....	37	5	70	7	.....	190	35	7	.....	351
May	.....	2	.....	2	35	13	61	4	.....	242	27	6	335	727
June	.....	.....	.....	.....	26	14	36	6	.....	261	26	7	....	376
July	....	.....	.....	.....	41	16	52	4	.....	201	44	5	.....	363
August	2	3	1	2	26	14	40	3	.....	175	35	3	545	849
September	.....	2	.....	.....	33	9	32	5	.....	172	19	6	.....	228
October	.....	1	.....	.....	17	10	33	7	.....	125	10	9	...	212
November	.....	2	.....	.....	30	8	40	2	.....	143	36	4	436	701
December	....	2	.....	.....	16	12	26	3	.....	93	25	6	.....	183
Total	3	15	5	4	327	107	426	55	67	1847	365	68	1950	5236

STATEMENT OF WORK DONE BY INSPECTOR NO. 2, IN 1902.

MONTHS.	TURNED OFF ACCOUNT.			TURNED ON ACCOUNT.		NEW HOUSES.		FIXTURES.						TOTALS.
	Unpaid.	Vacancies.	Leaks and Waste.	Paid.	Occupied.	Building Purposes.	Completed	Complaints.	Frozen.	Installed.	Removed.	Leaks and Waste.	Vacancies.	
January										8				8
February	1									21				22
March					6		12			26	6			50
April			1							6		1		8
May	2									15				17
June						1								1
July										1				1
August										27				27
September										4				4
October														
November	2				1					9				12
December										3				3
Totals	5		1		7	1	12			120	6	1		153

STATEMENT OF THE WORK DONE BY INSPECTOR NO. 3, IN 1902.

MONTHS.	TURNED OFF ACCOUNT.			TURNED O' ACCOUNT.		NEW HOUSES.		FIXTURES.						TOTALS.
	Unpaid.	Vacancies.	Leaks and Waste.	Paid.	Occupied.	Building Purposes.	Completed.	Complaints.	Frozen.	Installed.	Removed.	Leaks and Waste.	Vacancies.	
January										1				1
February				1	1				1	30				33
March				2	5		6		2	11	1			27
April					2		6			16	4			28
May	1									9				10
June														
July										1				1
August										35				35
September										2				2
October				1	8	3	10			41	15			78
November														
December														
Totals	1			4	16	3	22		3	146	20			215

1902. Statement of Work Done at Annual Inspection by Inspector No. 2. 1902.

WARD.	Air Pumps.	ENGINES. Gas.	ENGINES. Steam.	FIXTURES. Draw Cocks.	FIXTURES. Goose Necks.	FIXTURES. Hydrants.	Hand Basins.	Heating Boilers.	Premises.	SPRINKLERS. Curb.	SPRINKLERS. Hydrant.	SPRINKLERS. Lawn.	SPRINKLERS. Sill Cock.	TUBS. Bath.	TUBS. Wash.	Urinals.	WATER CLOSETS. Non-Closing or Hopper.	WATER CLOSETS. Pan or Tank.	TOTAL.
First	13	4	2	1832	13	177	475	24	1597	81	39	55	531	437	99	43	7	971	6400
Second	33	8	13	3086	9	299	562	38	2326	52	53	74	648	453	46	76	27	1387	9190
Fifth	9	4	3	1686	3	133	180	28	1420	15	31	74	615	251	15	18	1	536	5022
Seventh	....	....	1	85	....	4	12	6	68	....	3	7	38	12	2	...	.....	20	258
Total	55	16	19	6689	25	613	1229	96	5411	148	126	210	1832	1153	162	137	35	2914	20870

1902 Statement of Work Done at Annual Inspection by Inspector No. 3. 1902.

Third	25	10	9	2922	3	182	1186	59	2052	127	54	129	999	914	314	74	22	2071	11152
Fourth	16	4	7	2202	11	216	908	51	1750	174	81	122	789	733	322	53	9	1407	8855
Sixth	8	2	2	1824	8	151	253	11	1467	27	49	106	662	275	49	27	.....	630	5551
Seventh	1	....	.....	41	....	9	7	2	40	2	1	30	18	5	..	...	...	6	162
Total	50	16	18	6989	22	558	2354	123	5309	330	185	387	2468	1927	685	154	31	4114	25720

Etc., from the First Year Works Were Operated to December 31, 1902.

Year.	Tons Coal Consumed.	Cost Coal from Jan. 1 to Dec. 31.	Grades of Bituminous Coal.	Gallons of Water Pumped.	Increase or Decrease.	Number of places supplied.	No. of Fire Hydrants.	Average height of Water in Reservoir above surface of Bay	Cost Coal per million gallons raised to Reservoir.	Gallons raised to Reservoir by one pound of Coal.
1868.....	591 1	$ 309 61	Lump.	.....	.....	.....	.....	.....	.....	.....
1869.....	544 4	4,818 48	"	.....	.....	.....	.....	.....	.....	.....
1870.....	1,064 5	5,159 10	"	246,648,960	.....	1,218	97	232 0	.....	.....
1871.....	1,422 7	7,117 00	"	279,868,495	32,719,535 *i*	1,727	99	232 0	$18 76	98 5
1872.....	1,308 5	6,528 50	"	395,076,000	115,707,505 *i*	2,140	103	232 0	16 52	150 9
1873.....	1,672 5	8,412 65	"	384,062,415	11,013,585 *d*	2,475	107	232 0	21 90	114 8
1874.....	1,759 0	7,709 54	"	444,817,395	60 754,980 *i*	2,663	107	232 0	17 38	126 4
1875.....	1,836 4	8,657 61	"	671,005,475	86,188,080 *i*	2,700	110	232 0	16 30	145 5
1876.....	1,105 1	8,925 22	"	670,726 650	139,721,175 *i*	2,763	112	232 0	13 30	159 3
1877.....	2 456 6	8,509 33	"	660,981,810	9,744,840 *d*	2,854	114	232 0	12 75	135 7
1878.....	2 463 3	7,945 37	"	682,392,315	21,410,505 *i*	2,915	115	232 0	11 64	136 4
1879.....	2,628 1	7,428 92	"	807,800,400	125,408,085 *i*	3,011	121	232 0	9 19	153 6
1880.....	3 076 1	6,978 41	Slack.	775,805,250	31,995 150 *d*	3,568	126	232 0	8 99	126 0
1881.....	3,430 3	6,517 58	"	975,640,934	219.835,684 *i*	4,110	161	232 0	6 68	142 2
1882.....	2,968 2	5 355 93	"	829,759,260	145,881,674 *d*	4,687	171	234 0	6 45	139 7
1883.....	2,398 2	3,908 59	"	815,939,685	13,819,575 *d*	5,077	197	234 7	4 66	170 0
1884.....	3,010 8	4,502 61	"	917,781.350	101,841,665 *i*	5,395	248	234 3	4 99	152 4
1885.....	3,243 8	4.575 79	"	1.036,496,665	118,715.315 *i*	5,658	270	232 9	4 40	159 7
1886.....	3 369 0	4,318 64	"	1 117,389,075	80,892,410 *i*	6,140	280	233 3	3 86	165 8
1887.....	2,820 4	3,589 31	"	1,218,213,688	100,824,613 *i*	6,368	318	234 1	2 95	216 0
1888.....	2 392 3	2,545 46	"	1,341,708,002	123,494,314	6,600	333	234 6	1 89	192 1
1889.....	2,446 0	2,661 12	"	1,475,358 220	133,650,218 *i*	7,086	346	235 2	1 80	301 5
1890.....	2,583 6	3 052 89	"	1,659,625,551	184,267,331 *i*	7,728	372	236 9	1 81	322 4
1891.....	3,120 7	3,941 53	"	1,807,038,580	147,413,029 *i*	8,255	393	237 3	2 18	291 42
1892.....	3,658 0	4,807 11	"	2,047,993,505	240,954,925 *i*	8,998	415	237 4	2 35	279 43
1893.....	4,693 5	6,218 95	"	2,333,638,610	285,645,105 *i*	9,687	444	236 5	2 66	248 6
1894.....	2,960 0	4,423 59	"	1,816,596,518	517 042,092 *d*	10,680	479	236 6	2 43	306 8
1895.....	3,541 5	4,377 16	"	1,975 396,305	158,797,787 *i*	.....	489	237 2	2 21	278 62
1896.....	3,056 0	3,603 28	"	2,005,757,728	30,361,423 *i*	10,846	514	237 6	1 796	328 17
1897.....	3,338 2	4,507 52	Miscel's.	2,215,416,779	209 659.042 *i*	11,385	523	235 0	2 034	331 75
1898.....	3,119 0	3,815 68	Slack.	2,270 520,528	55,103,758 *i*	11,739	543	235 6	1 68	363 98
1899.....	3 819 1	4,633 06	"	2,722,322,604	451,802,076 *i*	11,932	565	235 48	*1 701	356 408
1900.....	5,285 9	7,754 34	"	3,124,440,644	402,118,040 *i*	12,451	595	235 46	2 318	315 887
1901.....	5,199 75	8.103 99	"	3,190,024,916	65,584,272 *i*	12,949	632	236 04	2 005	398 878
1902.....	5,668 75	9,070 00	"	3,224 360,754	34,335,838 *i*	13,351	670	236 13	2 541	314 802

*HIGH SERVICE SYSTEM comprises all the territory south of Nineteenth street. In this district the average lift in feet for 1901 was 280.88. See Pumping Statistics.

PUMPING STATISTICS FOR 1902.

MONTHS.	ENGINES.													
	No. 3. GASKILL. 5,000,000 Gallons.						No. 4. WORTHINGTON 12,000,000 Gallons.		No. 5. WORTHINGTON. 8,000,000 Gallons.					
	SERVICE.						SERVICE		SERVICE.					
	HIGH.		LOW.		TOTAL.		LOW.		HIGH.		LOW.		TOTAL	
	Days Run.	Gallons.	Days Run.	Gallons.	Days Run.	Gallons.	Days Run.	Gallons.	Days Run.	Gallons	Days Run.	Gallons.	Days Run.	Gallons.
January	...	.....	8	34,466,432	8	34,466,432	24	158,009,448	31	86,870,520	....	.....	31	86,870,520
February	...	.....	...	.....	...	.....	28	194,122,392	28	91,870,944	....	.....	28	91,870,944
March	14	43,019,704	...	.....	14	43,019,704	31	175,298,640	18	52,610,712	....	.....	18	52,610,712
April	30	90,761,034	...	.....	30	90,761,034	30	164,186,880	....	.....	...	.....	...	.....
May	31	91,875,420	...	.....	31	91,875,420	....	.....	....	.....	31	156,078,912	31	156,078,912
June	30	99,329,776	...	.....	30	99,329,776	...	.....	....	.....	30	183,194,880	30	183,194,880
July	31	91,732,004	...	.....	31	91,732,004	....	.....	....	.....	31	174,552,312	31	174,552,312
August,	20	74,655,854	...	.....	20	74,655,854	16	90,470,040	....	.....	25	116,497,920	25	116,497,920
September	19	58,744,686	...	.....	19	58,744,686	30	172,968,648	11	35,376,000	....	.....	11	35,376,000
October	29	88,292,204	..	.....	29	88,292,204	31	166,558,272	2	4,829,616	....	.....	2	4,829,616
November	20	63,492,884	...	.....	20	63,492,884	30	158,040,360	10	30,658,056	....	.....	10	30,658,056
December	31	108,912,804	...	.....	31	108,912,804	31	166,883,400	.. .	.....	....	.....	...	.....
Total	255	810,816,370	8	34,466,432	263	845,282,802	251	1,446,538,080	100	302,215,848	117	630,324,024	217	952,539,872
Daily Average	..	3,179,672	...	4,308,304	...	3,214,003	....	5,763,099	....	3,922,158	....	5,387,385	...	4,297,419

PUMPING STATISTICS FOR 1902—Continued.

MONTHS.	ENGINES. TOTALS. SERVICE. HIGH. Days Run.	ENGINES. TOTALS. SERVICE. HIGH. Gallons.	ENGINES. TOTALS. SERVICE. LOW. Days Run.	ENGINES. TOTALS. SERVICE. LOW. Gallons	TOTAL. Days Run.	TOTAL. Gallons.	DAILY AVERAGE.	AVERAGE LIFT IN FEET. SERVICE. HIGH.	AVERAGE LIFT IN FEET. SERVICE. LOW.
January	31	86,870,520	31	192,475,880	62	279,346,400	9,011,174	27,791	23,659
February	28	91,870,944	28	194,122,392	56	285,993,336	10,214 047	28,315	23,774
March	31	95,630,416	31	175.298,640	62	270,929,056	8,739,647	28,119	23,719
April	30	90.761,034	30	164 186,880	60	254,947,914	8,498,263	28,228	23,676
May	31	91,875,420	31	156,078,912	62	247,954,332	7,998,527	28,737	23,690
June	30	99,329,776	30	183,194,880	60	282,524,656	9,417,488	28,216	23,633
July	31	91,732,004	31	174,552,312	62	266,284,316	8,589 817	26,879	23,621
August	31	112,861.406	31	168,762,408	62	281,623,814	9,084,639	26,206	23,610
September	30	94,120,686	30	172,968,648	60	267,089,334	8,902,978	27,089	23,627
October	31	93,121,820	31	166 558,272	62	259,680 092	8,376,777	27,304	23,325
November	30	94,150.940	30	158,040.360	60	252,191,300	8,406,377	27,297	23 709
December	31	108,912,804	31	166,883,400	62	275,796,204	8,896.652	27,084	23,634
Totals	365	1,151,237,770	376	2,073,122,984	730	3,224,360,754	.....	331,265	283,677
Daily Average	....	3,154,076	....	5,679,789	....	8,833,865	8,833.865	27,605	23,640

DESCRIPTION OF RESERVOIR, STAND PIPE, BOILER HOUSE, ENGINES, INTAKE PIPES AND SWIMMING POOL.

Reservoir.

The reservoir was constructed in 1873 and is about two miles distant from the pumping station, the bottom of which is 210 feet from above the zero level of the water in the bay, and when the water is carried to a depth of 27 feet, holds 32,952,934 gallons of water.

Stand Pipe.

The stand pipe was erected in 1868. It is five feet in diameter and 259.65 feet in height. A spiral staircase surrounds it and all enclosed in brick. So far as we know, this is the tallest stand pipe in the world.

Boiler House.

The boiler house was erected in 1897 and is 74 feet wide, 102 feet long, and 25 feet from floor line to bottom of cords to roof. On the north side eight horizontal tubular boilers are installed in batteries of two each. The boilers are 72 inches in diameter, 18 feet long, without domes, and contain 80 4-inch lap welded tubes, capable of carrying 150 lbs. pressure to the square inch.

On the south side of the house can be erected an equal number of the same size boilers, but until these are required the room is used for storing coal; the bins now in place hold 800 tons of coal.

On the north side of the boiler house, near the the east end, is a self-sustaining steel plate chimney, 175 feet high, 75 inches internal diameter, lined with fire-brick to a height of 80 feet. The chimney was erected in 1897.

Engines.

There are five pumping engines.

Nos. 1 and 2 are Cornish Bull Pumps, erected in 1868; alike in their dimension, which are as follows: Steam cylinders, 60 inches in diameter; Pump Plunger, 20¼ inches in diameter, each 10-foot stroke, capacity being 165 gallons per stroke, pumping 2,000,000 gallons daily. These pumps are out of commission, the cost for repairs being greater than they are worth.

No. 3 is a Gaskill Horizontal Compound Pumping Engine, erected in 1886, having two H. P. Cylinders, 21 inches in diameter, two L. P. Cylinders, 42 inches in diameter, two pumps 19½ inches in diameter, all 36-inch stroke; capacity being 182 gallons per revolution, pumping 5,000,000 gallons daily.

SWIMMING POOL AT PUMPING STATION.

No. 4, is a Worthington Horizontal Compound High Duty Pumping Engine erected in 1893, having two H. P. Cylinders, 33 inches in diameter, two L. P. Cylinders, 66 inches in diameter, two pumps, 29 inches in diameter, all 49¾-inch stroke; capacity being 552 gallons per stroke, pumping 12,000,000 gallons per day, at a piston speed of 128 feet per minute, against a head of 260 feet.

No. 5 is a Worthington Horizontal Compound High Duty Pumping Engine, erected in 1899, having two H. P. Steam Cylinders, each 25 inches in diameter; two L. P. Cylinders, each 50 inches in diameter, two double acting water plungers, each 23 inches in diameter, all 36-inch stroke; capacity being 264 gallons per stroke, pumping 8,000,000 gallons per day, at a piston speed of 136 feet per minute, against a total load of 142 pounds per square inch (a head of 328 feet).

The regular employes at the pumping works are one chief engineer, one machinist, two assistant engineers, three greasers, three firemen, one assistant fireman, one watchman and keeper of grounds and one janitor. The chief engineer stands a watch of five hours, from 7 to 12 every forenoon; the assistants divide the remainder of each day equally between them.

Intake Pipes.

There are two intakes, one constructed in 1868, of which 52 feet is brick 14 feet in diameter, 590 feet is wood 4¼ feet in diameter, and 333 feet is boiler iron 4 feet in diameter, making a total length of 975 feet. The top of the outer end of this intake is four feet below the zero level of the bay, and as it approaches the shore ascends until the top is only two feet above the zero level of the bay. ***This intake has not been used since the new one was completed, and as the part made of wood has not been submerged for some time it is undoubtedly past use.***

The second intake was completed in 1896. It is made of cast iron, 60 inches internal diameter, 8,307.18 feet long, buried in the bottom of the bay; at no place is there less than three feet of earth over its top. The outer end terminates in an octagonal crib, 40 feet being its extreme width, and 8 feet high, the top being 13 feet below the zero level of the bay. So far as we know, this is the longest single piece of submerged 60-inch cast iron pipe in the world.

Swimming Pool.

The Swimming Pool was built on land reclaimed at the foot of Chestnut street, near the Pumping Station, in the early part of 1902. The interior of the Pool covers a space 75 feet wide and 155 feet long, lined with Portland Cement. The depth of water ranges from 1 6-12 to 6 9-12 feet, and is supplied from a four-inch water pipe. On the west side of the Pool, there are thirty-four cabinets, each 3 1-2x5 feet, also an attendant's room 15x5 feet.

FIRE HYDRANTS PLACED IN 1902.

STREET.	LOCATION.	SIZE.	STYLE.	REMARKS.
Pumping Station.	14 ft. West of Engine House No. 3	6-inch	Mathews	
Third	7 ft. West of Chestnut	6-inch	Mathews	In place of 4-inch Mathews.
Third	5 ft. West of Walnut	6-inch	Mathews	
Third	5 ft. East of Cherry	6-inch	Mathews	In place of 4-inch Mathews.
Third	3 ft. West of Parade	6-inch	Mathews	
Fourth	153.10 ft. West of State	6-inch	Mathews	
Fourth	6 ft. East of Poplar	6-inch	Mathews	
Fourth	68 ft. West of Pennsylvania Ave	4-inch	Mathews	
Fourth	89 ft. East of East Ave	4-inch	Mathews	
Fifth	306.8 ft. East of East Ave	6-inch	Mathews	
Fifth	7.4 ft. East of Myrtle	6-inch	Mathews	In place of 4-inch Mathews.
Fifth	5 ft. West of Pennsylvania Ave	6-inch		
Fifth	301 ft. East of East Ave			6-inch Mathews taken out.
North Park Row.	163.4 ft. East of Peach	6-inch	Mathews	In place of 4-inch Mathews.
South Park Row.	164.11 ft. West of State	6-inch	Mathews	In place of 4-inch Mathews.
Lake Road	5 ft. East of Payne Ave	6-inch	Mathews	
Lake Road	700 ft. East of Payne Ave	6-inch	Mathews	
Lake Road	234.6 ft. West of Payne Ave			6-inch Mathews taken out.
Seventh	4.3 ft. East of Ash	6-inch	Mathews	
Eighth	156 ft. West of Perry	6-inch	Mathews	
Eighth	213 ft. East of Hess			4-inch Mathews taken out.
Ninth	151 ft. East of Raspberry			4-inch Mathews taken out.
Prospect	622 ft. East of Pennsylvania Ave	4-inch	Mathews	In place of 4-inch Pittsburg.
Twelfth	328.6 ft. West of Raspberry	6-inch	Mathews	
Twelfth	5 ft. East of Cranberry	6-inch	Mathews	Three Way Hydrant.
Huron	6.6 ft. East of Cherry	6-inch	Mathews	
Nineteenth	5 ft. West of Plum	6-inch	Mathews	
Nineteenth	4.3 ft. East of Cascade	6-inch	Mathews	
Nineteenth	5 ft. East of Poplar	6-inch	Mathews	
Twentieth	5 ft. West of Buffalo Road	6-inch	Mathews	
Twenty-first	9-12 ft. Northeast Cor. Perry	6-inch	Mathews	In place of 4-inch Bay State.
Twenty-third	5.10 ft. East of Holland	6-inch	Mathews	

Twenty-third	5 ft. West of German	6-inch	Mathews	
Twenty-third	3.5 ft. East of Myrtle	6-inch	Mathews	In place of 4-inch Pittsburg.
Twenty-third	314.8 ft. West of Ash	4-inch	Mathews	In place of 4-inch Pittsburg.
Crommell ave	313.10 ft. East of Poplar	4-inch	Mathews	
Twenty-fifth	6 ft. West of Reed	6-inch	Mathews	In place of 4-inch Bay State.
Twenty-fifth	5 ft. West of Parade	6-inch	Mathews	
Twenty-sixth	9 ft. East of Plum	6-inch	Mathews	
Twenty-sixth	7 ft. East of Cascade	6-inch	Mathews	In place of 4-inch Mathews.
Twenty-sixth	5 ft. East of Raspberry	6-inch	Mathews	
Twenty-sixth	5.6 ft. East of Cranberry	6-inch	Mathews	In place of 4-inch Mathews.
Twenty-eighth	191.8 ft. West of Plum	6-inch	Mathews	
Twenty-ninth	173 ft. West of Cochran	6-inch	Mathews	
Twenty-ninth	201 ft. East of Cherry	6-inch	Mathews	
Pennsylvania ave.	48 ft. North of Ninth	6-inch	Mathews	
Hess avenue	5 ft. East of Eighth	4-inch	Mathews	
East avenue	71 ft. North of Queen	4-inch	Mathews	
Reed	4.4 ft. North of Twenty-second	6-inch	Mathews	
Ash	5 ft. South of Sixth	6-inch	Mathews	
Ash	5 ft. North of Twenty-third	6-inch	Mathews	
Ash	3.5 ft. North of Twenty-second	6-inch	Mathews	
Parade	3.8 ft. North of Twenty-third	6-inch	Mathews	
Parade	5 ft. South of Sixteenth	6-inch	Mathews	Three Way Hydrant.
Parade	5 ft. South of Seventeenth	6-inch	Mathews	Three Way Hydrant.
Marvin avenue	476.4 ft. South of Pine Ave	4-inch	Mathews	
German	12.7 ft. South of Twenty-fifth	6-inch	Mathews	
State	400 ft. North of Front	4-inch	Mathews	In place of 4-inch Mathews, N
Peach	19 ft. South of Nineteenth	6-inch	Mathews	E. Cor. 19-inch
Myrtle	5.3 ft. South of Twenty-fourth	6-inch	Mathews	In place of 4-inch Mathews.
Cherry	5 ft. North of Fourteenth	6-inch	Mathews	
Cherry	8 ft. North of Huron			4-inch Ludlow taken out.
Liberty	112 ft. North of Tenth			4-inch Mathews taken out.
Liberty	160 ft. South of Eleventh			6-inch Mathews taken out.
Liberty	3.5 ft. North of Third	6-inch	Mathews	
Plum	1 9.10 ft. North of Sixteenth	6-inch	Mathews	In place of 4-inch Bay State.
Raspberry	2 ft. North of Seventh	6-inch	Mathews	In place of 4-inch Mathews.
Raspberry	5 ft. North of Seventeenth	6-inch	Mathews	

SUMMARY OF
FIRE HYDRANTS PLACED AND REMOVED IN 1902.

Placed.

STYLE—	SIZE.	NUMBER.	
Matthew's	4-inch.	9	
Matthew's	6-inch.	52	61

Removed.

STYLE—	SIZE.	NUMBER.	
Matthew's	4-inch.	13	
Matthew's	6-inch.	3	
Ludlow	4-inch.	1	
Pittsburg	4-inch.	3	
Bay State	4-inch.	3	23
Net Increase			38
Number in use December 31, 1901			632
Total in use December 31, 1902			670

STOP VALVES PLACED IN 1902.

STREET.	WHERE LOCATED.	SIZE.	STYLE.	REMARKS.
East Public Dock.	555 ft. East of State 36.6 ft. South of North line Public Dock	¾-inch	Hays	
East Public Dock.	East line of State 26 ft. South of North line Public Dock	2-inch	Hays	
Pumping Station.	91.5 ft. North of Engine House No. 1 30.6 ft. W. of W. line of Eng. Hse. 1	4-inch	Eddy	
Pumping Station.	92.5 ft. North of Engine House No. 1 31.6 ft. W. of W. line of Eng. Hse. 1	1-inch	Hays	
Pumping Station.	53.3 ft. East of West line of Boiler House 2.4 ft. North of North line of Boiler House.	4-inch	Eddy	
Pumping Station.	14 ft. West of Engine House No. 3 21.4 ft. North of Engine House No. 3	4-inch	Eddy	
Pumping Station.	55.6 ft. West of Engine House No. 1 20.6 ft. North of Engine House No. 1	6-inch	Eddy	
Front	West line of Peach	4-inch	Eddy	
Short	East line of Chestnut	6-inch	Eddy	In place of 4-inch Eddy taken out.
Short	13.6 ft. West of the E. line of Chestnut 28 ft. South of the N. line of Short	.....	.....	4-inch Ludlow taken out.
Short	West line of Myrtle	4-inch	Eddy	
Second	West line of Chestnut	6-inch	Eddy	In place of 4-inch Eddy taken out.
Second	17.8 ft. West of East line of Chestnut 26 ft. South of North line of Second	.....	.....	4-inch Ludlow taken out.
Second	East line of Chestnut	6-inch	Eddy	
Second	East line of Myrtle	4-inch	Eddy	
Second	West line of Myrtle	4-inch	Eddy	
Third	West line of Chestnut	20-inch	Eddy	In place of 4-inch Eddy taken out.
Third	West line of Walnut			4-inch Eddy taken out.
Third	East line of Cherry	20-inch	Eddy	

STOP VALVES PLACED IN 1902—Continued.

STREET.	WHERE LOCATED.	SIZE.	STYLE	REMARKS.
Fourth	233.4 ft. East line of Poplar 11.8 ft. South of North line of Fourth	6-inch	Eddy	For Blow Off for 20-inch Main.
Fourth	East line of Poplar	20-inch	Eddy	
Fourth	East line of East Ave	6-inch	Eddy	
Fourth	West line of Pennsylvania Ave	6-inch	Eddy	
Fifth	East line of Walnut	4-inch	Eddy	
Fifth	West line of Pennsylvania Ave	6-inch	Eddy	
Lake Road	West line of Payne Ave	8-inch	Eddy	
Lake Road	East line of Hess Ave	8-inch	Eddy	6-inch Eddy taken out.
Lake Road	East line of Payne Ave	12-inch	Eddy	
Seventh	West line of Cascade	6-inch	Eddy	
Eighth	West line of Reed	4-inch	Eddy	
Eighth	West line of Payne Ave	6-inch	Eddy	
Eighth	East line of Hess Ave	6-inch	Eddy	
Eighth	East line of Reed	4-inch	Eddy	
Eighth	West line of Wayne	6-inch	Eddy	
Ninth	East line of Cascade	6-inch	Eddy	
Twelfth	East line of Cranberry	12-inch	Eddy	
Twelfth	West line of Raspberry	12-inch	Eddy	In place of 6-inch Eddy taken out.
Seventeenth	West line of Parade	6-inch	Eddy	
Nineteenth	East line of Poplar	6-inch	Eddy	
Nineteenth	West line of Poplar	12-inch	Eddy	
Nineteenth	East line of Liberty	6-inch	Eddy	
Nineteenth	West line of Plum	12-inch	Eddy	
Nineteenth	East line of Plum	12-inch	Eddy	
Nineteenth	21 ft. West of East line of Plum 23 ft. North of South line of Nineteenth	6-inch	Eddy	
Nineteenth	East line of Cascade	12-inch	Eddy	

Twentieth	West line of Buffalo Road	6-inch	Eddy	
Twentieth	East line of Perry	6-inch	Eddy	
Buffalo Road	West line of East Ave	6-inch	Eddy	
Twenty-second	East line of Poplar	6-inch	Eddy	
Twenty-sixth	East line of Plum	12-inch	Eddy	
Twenty-sixth	East line of Cascade	12-inch	Eddy	
Twenty-sixth	East line of Raspberry	12-inch	Eddy	In place of 4-inch Eddy taken out.
Twenty-sixth	East line of Cranberry	12-inch	Eddy	In place of 4-inch Eddy taken out.
Twenty-eighth	West line of Plum	6-inch	Eddy	
Twenty-ninth	East line of Cherry	6-inch	Eddy	
Twenty-ninth	West line of Cochran	6-inch	Eddy	
Marvin avenue	West line of Pine Ave	6-inch	Eddy	
Payne avenue	South line of Elliott	6-inch	Eddy	
Payne avenue	South line of Lake Road	6-inch	Eddy	
Pennsylvania ave.	North line of Lake Road	6-inch	Eddy	
East avenue	991 ft. North of North line of Fifth 295 ft. West of West line of East Ave	2-inch	Hays	On property of Municipal Hospital.
Perry	North line of Twenty-first	6-inch	Eddy	
Parade	North line of Sixteenth	12-inch	Eddy	On West Side of Street.
Parade	South line of Sixteenth	12-inch	Eddy	On West Side of Street.
Parade	North line of Seventeenth	12-inch	Eddy	On West Side of Street.
Parade	South line of Seventeenth	12-inch	Eddy	On West Side of Street.
Parade	North line of Eighteenth	12-inch	Eddy	On West Side of Street.
Parade	North line of Sixteenth	4-inch	Eddy	On East Side of Street.
Parade	North line of Seventeenth	4-inch	Eddy	On East Side of Street.
Parade	South line of Seventeenth	4-inch	Eddy	On East Side of Street.
Division	South line of Thirteenth	4-inch	Eddy	
Peach	North line of North Park Row			4-inch Eddy taken out.
Chestnut	South line of Third	20-inch	Eddy	
Chestnut	21 ft. North of South line of Short 30.8 ft. West of the East line of Chestnut	30-inch	Eddy	
Chestnut	27.4 ft. South of North line of Short 10.6 ft. West of the East line of Chestnut	6-inch	Eddy	

STOP VALVES PLACED IN 1902—Continued.

STREET.	WHERE LOCATED:	SIZE.	STYLE.	REMARKS.
Chestnut	13.6 ft. North of South line of Short 18 ft. East of the West line of Chestnut	30-inch	Eddy	
Chestnut	North line of Short 16.6 ft. West of the East line of Chestnut	20-inch	Eddy	
Chestnut	3 ft. South of the North line of Short 26 ft. East of the West line of Chestnut			20-inch Eddy taken out.
Chestnut	14.6 ft. South of the North line of Short 21 ft. West of the East line of Chestnut			20-inch Eddy taken out.
Cherry	South line of Third			4-inch Eddy taken out.
Poplar	23 ft. North of South line of Nineteenth 21 ft. West of the East line of Poplar	6-inch	Eddy	
Poplar	North line of Third	6-inch	Eddy	
Liberty	North line of Twelfth	6-inch	Eddy	
Liberty	23 ft. West of East line of Liberty 26.5 ft. North of South line of Nineteenth	6-inch	Eddy	
Liberty	South line of Tenth	6-inch	Eddy	
Cascade	North line of Nineteenth	6-inch	Eddy	
Cascade	23.6 ft West of the East line of Cascade 21 ft. North of South line of Nineteenth	6-inch	Eddy	
Cascade	North line of Ninth	6-inch	Eddy	

STATEMENT OF STOP VALVES.

	STYLE.	SIZE IN INCHES.													TOTAL.	
		¾	1	1¼	1½	2	4	6	8	12	20	24	30	48		
	Boston	....	..	....	....	....	....	....	....	....	1		1	....	2	
	Curtis	....	..	....	....	....	....	2	....	....	....	....	....	....	2	
	Eddy	....	....	....	....	....	342	666	12	96	11	1	5	2	1135	
	Jarecki & Hays	12	8	....	10	32		....	..	....	....	....	....	..	62	
	Ludlow	....	....	....	....	....	87	50	....	3	11	..	....	....	151	
	Pratt & Cady	....	....	....	....	....	....	1	4	3	....	....	....	....	8	
Total Number Stop Valves in use December 31, 1901	Total	12	8	....	10	32	429	719	16	102	23	1	6	2		1360
	Eddy	....	....	....	....	....	14	38	2	16	5	....	2	....	77	
	Hays	1	1	....	....	2	....	....	....	....	....	....	....	....	4	
Total Number Stop Valves placed during 1902	Total	1	1	....	....	2	14	38	2	16	5	....	2	....		81
Total Number Stop Valves placed to December 31, 1902	Total	13	9	....	10	34	443	757	18	118	28	1	8	2		1441
	Eddy	....	....	....	....	....	8	2	....	....	2	....	....	....	12	
	Hays	..	....	....	....	....	....	....	....	....	....	....	....	....		
	Ludlow	....	....	....	....	....	2	....	....	....	....	....	....	.	2	
Total Number Stop Valves removed during 1902	Total	....	....	....	....	....	10	2	....	....	2	....	....	....		14
Total Number Stop Valves in use December 31, 1902	Total	13	9	....	10	34	433	755	18	118	26	1	8	2		1427

MAIN PIPE LAID IN 1902.

STREET.	LOCATION.	SIZES.											REMARKS.
		¾ in.	1 in.	1½ in.	2 in.	4 in.	6 in.	8 in.	12 in.	20 in.	30 in.	42 in.	
		Ft. In.	Ft. In.	Ft. In.	Ft. In.	Ft. In.	Ft. In.	Ft. In.	Ft. In.	Ft. In.	Ft. In.	Ft. In.	
W. Public Doc	242 ft. West of west line of State westwardly	.....	.....	.....	209	.....	.....	.....	.....	.....	.....	.....	
E. Public Dock	49 ft. West of east line of State eastwardly	.....	.....	.....	603	.....	.....	.....	.....	.....	.....	.....	
West Front...	At Water Works Pumping Station, 44.8 ft. East of west line of Boiler House northwardly	.....	.....	.....	.....	6	.....	.....	.....	.....	.....	.....	Hydrant Branch.
West Front...	At Water Works Pumping Station, 14 ft. West of west line of Boiler House No. 3 northwardly	.....	.....	.....	.....	.....	6	.....	.....	.....	.....	.....	Hydrant Branch.
West Front...	At Water Works Pumping Station, 29.6 ft. West of west line of Engine House northwardly	.....	.....	.....	.....	110	.....	.....	.....	.....	.....	.....	
West Front...	At Water Works Pumping Station, 92.5 ft. North of north line of Engine House No. 1 northwardly	12	92	.....	.....	.....	.....	.....	.....	.....	.....	.....	
West Front...	At Water Works Pumping Station, 41 ft. East of west line of Boiler House southwardly	.....	.....	.....	.....	48 6	.....	.....	.....	.....	.....	.....	
West Front...	At Water Works Pumping Station, 61 ft. West of west line of Engine House No. 1 eastwardly	.....	.....	.....	.....	.....	251	.....	.....	.....	.....	.....	
West Front...	21 ft. West from east line of Peach westwardly	.....	.....	.....	.....	359	.....	.....	.....	.....	.....	.....	

Short	13.5 ft. South of south line of Short eastwardly										21 6		
Short	14 ft. West of east line of Chestnut eastwardly						14						
East Second	389 ft. East of east line of Parade eastwardly				35 9								
Second	4 ft. East of east line of Chestnut westwardly						68						
Third	113.6 ft. East of east line of Liberty eastwardly						89						
Third	129 ft. West of west line of Poplar northwardly						10						Hydrant Branch.
Third	7 ft. West of west line of Chestnut northwardly						9						Hydrant Branch.
Third	5 ft. West of west line of Walnut northwardly						8						Hydrant Branch.
Third	5 ft. East of east line of Cherry												7 ft. 6 in. H.B. taken up
Third	39 ft. East of west line of Chestnut westwardly									1440			In place of 1440 ft. 4 in. taken up.
Third	202.6 ft. East of east line of Liberty eastwardly						166 6						
Third	127 ft. West of west line of Poplar												8.4 ft. 6 in. H. B. taken up.
Fourth	153.10 ft. West of west line of State northwardly						10						Hydrant Branch.
Fourth	233.4 ft. East of east line of Poplar northwardly						9 4						For 6 in. blowoff.
Fourth	6 ft. East of east line of Poplar northwardly						8 6						Hydrant Branch.
Fourth	21 ft. West of East line of Cherry westwardly									708			In place of 708 ft. 4 in. taken up.
Fourth	39 ft. East of west line of Pennsylvania avenue, westwardly						107						

MAIN PIPE LAID IN 1902—Continued.

STREET.	LOCATION.	SIZES.											REMARKS.
		¾ in.	1 in.	1½ in.	2 in.	4 in.	6 in.	8 in.	12 in.	20 in.	30 in.	40 in.	
		Ft. In.	Ft. In.	Ft. In.	Ft. In.	Ft. In.	Ft. In.	Ft. In.	Ft. In.	Ft. In.	Ft. In.	42 in.	
Fourth	29 ft. West of east line of East avenue, eastwardly						118						
Fourth	68 ft. West of west line of Pennsylvania avenue, northwardly					9 6							Hydrant Branch.
Fourth	89 ft. East of east line of East avenue northwardly					9 6							
Fifth	255.8 ft. East of east line of East avenue eastwardly						51 3						
Fifth	306.11 ft. East of east line of East avenue, northwardly						10						Hydrant Branch.
Fifth	7.4 ft. East of east line of Myrtle northwardly						8 6						Hydrant Branch. In place of 8.6 ft. 4 in. H. B. taken up.
Fifth	2 ft. East of east line of Myrtle eastwardly						236						
Fifth	301 ft. East of east line of East avenue eastwardly						296						
Fifth	5 ft. West of west line of Pennsylvania avenue northwardly						9 6						Hydrant Branch.
Fifth	301 ft. East of east line of East avenue												9.6 ft. 4 in. H. B. taken up.
N. Park Row	163.4 ft. East of east line of Peach northwardly						8						Hydrant Branch—In place of 8 ft. 4 in. H.B. taken up.
S. Park Row	164.11 ft. West of west line of State southwardly						8 6						Hydrant Branch—In place of 8.6 ft. H.B. 4 in. taken up
Lake Road	700 ft. East of east line of Payne avenue northwardly						10						Hydrant Branch.
Lake Road	5 ft. East of east line of Payne avenue northwardly						10						Hydrant Branch.

Lake Road....	399 ft. East of east line of Hess avenue northwardly..						10						Hydrant Branch.
Lake Road....	21 ft. West of east line of Payne avenue, eastwardly..								721				
Lake Road....	21.9 ft. West of east line of Hess avenue eastwardly ...							692 9					
Seventh	4.3 ft. East of east line of Ash northwardly						6 4						Hydrant Branch.
Seventh	21 ft. West of east line of Cascade westwardly						420						
McCarter Ave.	408 ft. East of east line of East avenue eastwardly ...						36						
McCarter Ave.	446 ft. East of east line of East avenue northwardly .					10							Hydrant Branch.
McCarter Ave.	409 ft. East of east line of East avenue												10 ft. 4 in. H. B. taken up.
Eighth	322.6 ft. East of east line of East avenue eastwardly						314						
Eighth	156 ft. West of west line of Perry northwardly						8 8						Hydrant Branch.
Eighth	21 ft. West of east line of Payne avenue westwardly..						294 6						
.Eighth	21 ft. West from east line of Hess avenue eastwardly ...						234						
.Eighth	213 ft. East of east line of Hess avenue												9 6 ft. 6 in. H. B. taken up.
Ninth	151 ft. East of east line of Raspberry												9.6 ft. 6 in. H. B. taken up.
Ninth	43 ft. West of west line of Cascade westwardly						466						
Prospect	597 ft. East of east line of Pennsylvania avenue eastwardly						24						
Prospect	598 ft. East of east line of Pennsylvania avenue												9 ft. 4 in. H. B. taken up.

MAIN PIPE LAID IN 1902—Continued.

STREET.	LOCATION.	SIZES.											REMARKS.
		¾ in.	1 in.	1½ in.	2 in.	4 in.	6 in.	8 in.	12 in.	20 in.	30 in.	42 in.	
		Ft. In.	Ft. In.	Ft. In.	Ft. In.	Ft. In.	Ft. In.	Ft. In.	Ft. In.	Ft. In.	Ft. In.	Ft. In.	
Prospect	622 ft. East of east line of Pennsylvania avenue, northwardly					9							Hydrant Branch.
Twelfth	26 ft. West of east line of Raspberry westwardly								714				
Twelfth	5 ft. East of east line of Cranberry northwardly						15						Hydrant Branch.
Twelfth	328.6 ft. West of west line of Raspberry						15						Hydrant Branch.
Fourteenth	12 ft. East of east line of Holland eastwardly						321						
Fifteenth	174 ft. East of east line of Reed eastwardly						24						
Fifteenth	174 ft. East of east line of Reed												10 ft. 6 in. 4 in. H. B. taken up.
Fifteenth	198 ft. East of east line of Reed northwardly						10 6						Hydrant Branch.
Fifteenth	198.5 ft. East of east line of Reed eastwardly						64 3						
Fifteenth	263 ft. East of east line of Reed northwardly						10						Hydrant Branch.
Fifteenth	198 ft. East of east line of Reed												10 ft. 6 in. H. B. taken up.
Seventeenth	15 ft. East of east line of State eastwardly						193 9						
Nineteenth	5 ft. East of east line of Poplar southwardly						5 5						Hydrant Branch.
Nineteenth	6.8 ft. West of west line of Cherry westwardly								2246				

Nineteenth ...	5 ft. West of west line of Plum southwardly						5	6						Hydrant Branch.
Nineteenth ...	4.3 ft. East of east line of Cascade southwardly						5	6						Hydrant Branch.
Twentieth	136 ft. East of east line of Perry southwardly						8							Hydrant Branch.
Twentieth	5 ft. West of west line of Buffalo Road southwardly						7							Hydrant Branch.
Twentieth	133 ft. East of east line of Perry eastwardly						244							
Buffalo Road..	18 ft. North of south line of 20th St. southwardly						141	6						
Buffalo Road..	121.6 ft. South of Twentieth eastwardly						214	9						
Buffalo Road..	Continuation of last described pipe northwardly						17							
Buffalo Road..	Continuation of last described pipe eastwardly						15							In place of 15 ft. of 4 in. taken up.
Twenty-first ..	9 inches West of east line of Poplar						8	5						Hydrant Branch.
Twenty-second	21 feet West of east line of Holland eastwardly						185							In place of 8.5 ft. 4 in. H. B. taken up.
Twenty-third..	5.10 ft. East of east line of Holland northwardly						6	10						Hydrant Branch.
Twenty-third .	5 ft. West of west line of German northwardly						8	7						Hydrant Branch.
Twenty-third .	3.5 ft. East of east line of Myrtle northwardly						10	3						Hydrant Branch.
Twenty-fourth	83.6 ft. West of west line of Pennsylvania avenue westwardly						7	3						
Twenty-fourth	125.6 ft. East of east line of Peach eastwardly						277	6						
Crummell Ave.	313.10 ft. East of east line of Poplar northwardly					8								Hydrant Branch.

MAIN PIPE LAID IN 1902—Continued.

STREET.	LOCATION.	SIZES.											REMARKS.
		¾ in.	1 in.	1½ in.	2 in.	4 in.	6 in.	6 in.	12 in.	20 in.	30 in.	42 in.	
		Ft. In.	Ft. In.	Ft. In.	Ft. In.	Ft. In.	Ft. In.	Ft. In.	Ft. In.	Ft. In.	Ft. In.	Ft. In.	
Twenty-fifth	5 ft. West of west line of Paraue northwardly						8						Hydrant Branch.
Twenty-fifth	279.3 East of east line of Wayne eastwardly						148						
Twenty-fifth	279.3 East of east line of Wayne northwardly					9 4							Hydrant Branch.
Twenty-fifth	6 ft. West of west line of Reed northwardly						8 6						Hydrant Branch—In place of 7.4 ft. 4 in. H. B. taken up
Twenty-fifth	427.3 ft. East of east line of Wayne northwardly					9 4							Hydrant Branch.
Twenty-sixth	9 feet East of east line of Plum northwardly						10						Hydrant Branch.
Twenty-sixth	5.6 feet East of east line of Cascade northwardly						10						Hydrant Branch.
Twenty-sixth	7 feet East of east line of Cascade												10 ft. 4 in. H. B. taken up.
Twenty-sixth	43 feet West of east line of Liberty westwardly								2559				
Twenty-sixth	5 feet East of east line of Raspberry northwardly						10						Hydrant Branch.
Twenty-sixth	5.6 feet East of east line of Cranberry northwardly						10						Hydrant Branch.
Twenty-sixth	9 feet East of east line of Cranberry												10 ft. 4 in. H. B. taken up.
Twenty-seventh	322.6 feet West of west line of Plum westwardly						36						
Twenty-seventh	358.6 feet West of west line of Plum northwardly					9 6							Hydrant Branch.
Twenty-seventh	322.6 feet West of west line of Plum												9.6 ft. 4 in. H. B. taken up.

Twenty-eighth.	39 feet East of west line of Plum westwardly						230						
Twenty-eighth.	191.8 ft. West of west line of Plum northwardly						9 3						Hydrant Branch.
Twenty-ninth..	21 feet West of east line of Cherry eastwardly						222						
Twenty-ninth..	21 feet West of east line of Cochran westwardly						212 9						
Twenty-ninth..	173 feet West of west line of Cochran northwardly						9 8						Hydrant Branch.
Twenty-ninth..	201 feet East of east line of Cherry northwardly						9 8						Hydrant Branch.
Eliot Ave.....	495 feet East of east line of Peach eastwardly	120											
Hess Ave.....	5 feet North of north line of Eighth eastwardly						9 6						Hydrant Branch.
Payne Ave.....	5 feet North of north line of Eighth northwardly						1091						
Penna. Ave....	35 feet North of south line of Ninth northwardly						73						
Penna. Ave....	48 feet North of north line of Ninth eastwardly						9 6						Hydrant Branch.
Penna. Ave....	95 feet South of south line of Fifth northwardly						437						
Penna. Ave..	21 feet South of north line of Lake Road northwardly						169						
East Ave.....	991 feet North of north line of Fifth westwardly					306 6							For Municipal Hospital.
East Ave.....	71 feet North of north line of Queen westwardly					7 4							Hydrant Branch.
Perry.....	21 feet South of north line of Twenty-first northwardly						463						
Wayne.....	1285.6 ft. North of north line of Fifth northwardly					39							
Reed.....	4.4 ft. North of north line of Twenty-second eastwardly						8						Hydrant Branch.

MAIN PIPE LAID IN 1902—Continued.

STREET.	LOCATION.	SIZES.											REMARKS.
		¾ in.	1 in.	1½ in.	2 in.	4 in.	6 in.	8 in.	12 in.	20 in.	30 in.	42 in.	
		Ft. In.	Ft. In.	Ft. In.	Ft. In.	Ft. In.	Ft. In.	Ft. In.	Ft. In.	Ft. In.	Ft. In.	Ft. In.	
Ash	5 ft. South of south line of Sixth eastwardly						8 6						Hydrant Branch.
Ash	5 ft. North of north line of Twenty-third eastwardly						8						Hydrant Branch.
Ash	3.5 ft. North of north line of Twenty-second eastwardly						8						Hydrant Branch.
Parade	3.8 ft. North of north line of Twenty-third eastwardly						16 8						Hydrant Branch.
Parade	5 ft. South of south line of Sixteenth westwardly						10 11						Hydrant Branch.
Parade	5 ft. South of south line of Seventeenth westwardly						10 11						Hydrant Branch.
Parade	117 ft. South of south line of Fifteenth southwardly								1014				
Marvin Ave	18 ft. West of east line of Pine avenue southwardly						513 4						
Marvin Ave	176.4 ft. South of west line of Pine avenue westwardly						9						Hydrant Branch.
German	12.7 ft. South of south line of Twenty-fifth eastwardly						9						Hydrant Branch.
State	5 ft. North of north line of Front eastwardly					1 6							Hydrant Branch—In place of 10 ft. H. B. taken up.
State	400 ft. North of north line of Front eastwardly					5							Hydrant Branch.
Peach	19 ft. South of south line of Nineteenth eastwardly						8						Hydrant Branch.
Peach	6 inches North of south line of Nineteenth eastwardly												8 ft. 4 in. H. B. taken up.

Myrtle	5.3 ft. South of south line of Twenty-fourth eastwardly						10	3						Hydrant Branch—In place of 4 in. H B. taken up
Chestnut	7 ft. North of north line of Twenty-sixth southwardly									56				For blow-off for 20 in. main.
Chestnut	21 ft. West of east line of Chestnut northwardly										48			For better circulation.
Chestnut	21 ft. South of north line of Third northwardly											603		
Chestnut	13.5 ft. South of south line of Short northwardly												27	
Reservoir	362 ft. South of south line of Twenty-sixth eastwardly					9								Hydrant Branch.
Reservoir	313.6 ft. South of south line of Twenty-sixth southwardly						48							
Reservoir	313.6 ft. South of south line of Twenty-sixth													9 ft. 4 in. H. B. taken up.
Cherry	21 ft. South of north line of Third										390			
Cherry	8 ft. North of north line of Huron													6.9 ft. 4 in. H. B. taken up.
Poplar	153 ft. North of north line of Fourth northwardly						242	6						
Liberty	28.6 ft. South of north line of Twelfth northwardly						73	6						
Liberty	73.6 ft. North of north line of Twelfth northwardly						120							
Liberty	160 ft. South of south line of Eleventh													2 ft. 6 in. H. B. taken up.
Liberty	3.5 ft. North of north line of Third eastwardly						4	2						Hydrant Branch.
Liberty	111 ft. North of north line of Tenth northwardly						258							
Liberty	27 ft. South of north line of Tenth southwardly						126							
Plum	119.10 ft. North of north line of Sixteenth eastwardly						8	8						Hydrant Branch.

MAIN PIPE LAID IN 1902—Continued.

STREET.	LOCATION.	SIZES.											REMARKS.
		¾ in.	1 in.	1½ in.	2 in.	4 in.	6 in.	8 in.	12 in.	20 in.	30 in.	42 in.	
		Ft. In.	Ft. In.	Ft. In.	Ft. In.	Ft. In.	Ft. In.	Ft. In.	Ft. In.	Ft. In.	Ft. In.	Ft. In.	
Plum	21 ft. South of north line of Nineteenth southwardly	.....	.....	.....	.....	.....	21	.....	.....	.....	.....	.....	
Plum	21 ft. South of north line of Ninth southwardly	.....	.....	.....	.....	.....	214	.....	.....	.....	.....	.....	
Cascade	4 ft. North of north line of Tenth	.....	.....	.....	.....	.....	365	.....	.....	.....	.....	.....	
Cascade	148.10 ft. North of north line of Ninth northwardly	.....	.....	.....	.....	.....	179	.....	.....	.....	.....	.....	
Raspberry	2 ft. North of north line of Seventh eastwardly	.....	.....	.....	.....	.....	8 2	.....	.....	.....	.....	.....	Hydrant Branch—In place 8.2 ft. 4 in. H. B. taken up.
Raspberry	5 ft. North of north line of Fifth northwardly	.....	.....	.....	.....	.....	8 6	.....	.....	.....	.....	.....	Hydrant Branch.
Raspberry	180.5 ft. South of south line of Twenty-seventh southwardly	.....	.....	.....	.....	.....	48 6	.....	.....	.....	.....	.....	
Raspberry	230 ft. South of south line of Twenty-seventh eastwardly	.....	.....	.....	.....	.....	9 6	.....	.....	.....	.....	.....	Hydrant Branch.
Raspberry	181.6 ft. South of south line of Twenty-seventh	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	9.6 ft. 6 in. taken up.
	Total	132	92	.....	847 9	966	10697 6	692 9	7310	2586	624 6	27	

SUMMARY OF
PIPE LAID AND REMOVED IN 1902.

PIPE LAID.	Feet.	In.		Feet.	In.
¾-inch....	132				
1 -inch....	92				
2 -inch....	847	9			
4 -inch....	966				
6 -inch....	10,697	6			
8 -inch....	692	9			
12 -inch....	7,310				
20 -inch....	2,586				
30 -inch....	624	6			
42 -inch....	27		Total,	23,975	6

PIPE REMOVED.						Feet.	In.
1 -inch....	322						
4 -inch....	5,273	5					
6 -inch....	1,190	7					
20 -inch....	642						
30 -inch....	27		Total,	7,455	Net Increase,	16,520	6
					Or 3 miles	680	6
			Reported December 31, 1901....		110 miles.	3,302	5
			Total December 31, 1902....		113 miles.	3,982	11

CONNECTIONS MADE IN 1902.

WARD.	¾ Inch.			1 Inch.			1½ Inch.			2 Inch.			3 Inch.			4 Inch.			6 Inch.			TOTAL.		
	No.	Feet.	In.	No.	Ft.	In.	No.	Ft.	In.	No.	Ft.	In.	No.	Ft.	In.	No.	Ft.	In.	No.	Ft.	In.	No.	F.	In.
First	77	1436	4	1	19		1	16		....	.....		....	.....		1	13		....	.....		80	1484	4
Second	51	1003	3	2	49	8	1	26		....	.....		....	.....		....	.....		2	60	8	56	1139	7
Third	70	1554	1	1	8	6	....	.....		3	38	2	....	.....		....	.....		1	27		75	1627	9
Fourth	88	1559		....	.....		2	18	8	2	17	6	....	.....		....	.....		2	33		94	1628	2
Fifth	77	1502	8	1	56		1	50		....	.....		....	.....		....	.....		....	.....		79	1609	2
Sixth	69	1192	10	2	16	6	....	.....		....	.....		....	.....		....	.....		....	.....		71	1209	4
Seventh	16	239	1	....	.....		....	.....		1	5	9	....	.....		....	.....		....	.....		17	244	10
Total	448	8487	3	7	149	8	5	111	2	6	61	5	....	.....		1	13		5	120	8	472	8943	2

CONNECTIONS TAKEN OUT IN 1902.

First	6	81	8	....	.....		....	.....		....	.....		....	.....		....	.....		....	.....		6	81	8
Second	5	110	1	...	.....		....	.....		....	.....		....	.....		....	.....		....	.....		5	110	1
Third	2	16	6	2	3	7	1	13	6	....	.....		....	.....		....	.....		....	.....		5	33	7
Fourth	4	82	10	1	7		2	44		....	.....		....	.....		....	.....		....	.....		7	133	10
Fifth	....	.....		....	.....		....	.....		....	.....		....	.....		....	.....		....	.....		.....	.....	
Sixth	1	9	11	...	.....		....	.....		....	.....		....	.....		....	.....		....	.....		1	9	11
Seventh	....	.....		....	.....		....	.....		....	.....		....	.....		....	.....		....	.....		.....	.....	
Total	18	301		3	10	7	3	57	6	....	.....		....	.....		....	.....		....	.....		24	369	1
Net Increase	430	8186	3	4	139	1	2	53	8	6	61	5	....	.....		1	13		5	120	8	448	8574	1

CONNECTIONS RENEWED AND ALTERED IN 1902.

		Gain in Service Pipe. Ft.	In.	Loss in Service Pipe. Ft.	In.
First	65	141	11	450	5
Second	13	3	7	141	4
Third	14	5	11	29	
Fourth	32	77	3	147	6
Fifth	...	.....		.....	
Sixth	21		10	34	6
Total	145	219	6	803	9

	Ft.	In.	Ft.	In.
Net increase in service pipe in 1902	8574	1		
Net loss of service pipe, altering 145 con's	584	3		
Net increase of service pipe in 1902			7989	10
Service pipe in use Dec, 31, 1901	45 Miles		4647	5
Service pipe in use Dec. 31, 1902	47 Miles		2077	3

STATEMENT OF CONNECTIONS MADE TO DECEMBER 31, 1902.

WARD.	IN PAVED STREETS NOT IN USE.							IN USE.										TOTAL.									
	SIZE IN INCHES.							SIZE IN INCHES.										SIZE IN INCHES.									
	¾	1	1¼	2	4	6	Total.	¾	1	1¼	1½	2	2½	3	4	6	Total.	¾	1	1¼	1½	2	2½	3	4	6	Total.
First	203	1	..	2	...	...	206	1549	21	...	13	15	...	..	17	1	1616	1752	22	...	13	17	..	...	17	1	1822
Second	222	1	1	...	1	...	225	2250	21	...	28	19	..	..	43	16	2377	2472	22	..	29	19	...	...	44	16	2602
Third	402	2	...	1	...	...	405	2052	37	...	25	34	1	..	26	5	2180	2454	39	..	25	35	1	...	26	5	2585
Fourth	262	3	...	...	...	..	265	1730	32	3	26	27	...	...	14	2	1834	1992	35	3	26	27	...	...	14	2	2099
Fifth	140	...	...	...	...	.	140	1430	12	1	12	13	...	..	6	...	1474	1570	12	1	12	13	...	...	6	...	1614
Sixth	104	3	...	...	2	...	109	1500	20	...	10	11	...	.	7	..	1548	1604	23	...	10	11	...	...	9	...	1657
Seventh	....	...	...	...	...	...	....	110	6	1	8	7	...	1	4	4	141	.. 110	6	1	8	7	..	1	4	4	141
Total	1333	10	1	3	3	..	1350	10621	149	5	122	126	1	1	117	28	11170	11954	159	5	123	129	1	1	120	28	12520

A two-inch connection made in 1893, reported as a one-inch, corrected in 1902.

Total number reported Dec. 31, 1901			12072
Made on account street paving in 1902	82		
Made on application in 1902	390	472	
Removed and abandoned in 1902		24	
Net increase in 1902			448
Total number December 31, 1902			12520

STATEMENT OF METERS DECEMBER 31, 1902.

KIND.	IN USE.									NOT IN USE.									TOTAL.								
	SIZE IN INCHES.								Total.	SIZE IN INCHES.								Total.	SIZE IN INCHES.								Total.
	⅝	¾	1	1½	2	3	4	6		⅝	¾	1	1½	2	3	4	6		⅝	¾	1	1½	2	3	4	6	
Crown	1	4	2	2	8	1	2	...	20	...	1	...	...	...	...	...	...	1	1	5	2	2	8	1	2	...	21
Columbia	7	15	...	...	...	...	...	...	22	8	1	...	...	...	...	...	...	9	15	16	...	...	...	...	...	...	31
Empire	...	...	1	...	2	...	...	...	3	...	...	1	...	1	...	...	...	2	...	...	2	.	3	...	...	...	5
Gem	...	...	...	...	2	...	...	...	2	...	...	...	...	1	...	...	...	1	...	...	.	...	3	...	...	...	3
Keystone	...	1	1	6	3	...	...	...	11	...	...	...	...	...	...	...	...	.....	...	1	1	6	3	...	...	...	11
Lambert	...	..	...	...	...	...	...	...	.....	...	1	...	...	...	...	...	...	1	...	1	...	...	...	...	...	...	1
Nash	...	...	..	...	...	...	...	...	.....	...	...	...	...	1	...	...	...	1	...	...	...	...	1	...	...	..	1
Pitts. Disc	...	1	1	...	...	...	...	...	2	...	...	..	...	...	...	...	...	.....	...	1	1	..	...	...	...	...	2
Thomson	2	6	3	4	5	1	4	..	25	1	...	1	...	...	...	...	...	2	3	6	4	4	5	1	4	...	27
Union	3	53	12	14	27	11	15	1	136	3	11	8	2	1	2	2	...	29	6	64	20	16	28	13	17	1	165
Worthington	...	2	6	4	1	1	...	...	14	...	2	3	1	...	...	...	...	6	...	4	9	5	1	1	...	...	20
Total	13	82	26	30	48	14	21	1	235	12	16	13	3	4	2	2	...	52	25	98	39	33	52	16	23	1	287

CROSSES PLACED IN 1902.

SIZE.	NUMBER.	
4 x 4-inch	1	
6 x 6-inch	10	
8 x 6-inch	1	
12 x 6	11	
12 x 12-inch	2	
20 x 12-inch	3	
30 x 12-inch	1	
30 x 30-inch	1	30

REMOVED IN 1902.

SIZE.	NUMBER.	
4 x 4-inch	3	
6 x 4-inch	2	
6 x 6-inch	3	
12 x 6-inch	1	
20 x 4-inch	2	
20 x 12-inch	1	12
Net Increase		18

TEES PLACED IN 1902.

SIZE.	NUMBER.	
4 x 4-inch	5	
6 x 4-inch	1	
6 x 6-inch	24	
8 x 6-inch	1	
12 x 6-inch	14	
20 x 6-inch	6	
30 x 42-inch	1	52

REMOVED IN 1902.

SIZE.	NUMBER.	
4 x 4-inch	7	
6 x 4-inch	4	
6 x 6-inch	1	
20 x 20-inch	1	
30 x 20-inch	1	14
Net Increase		38

ANALYSES OF WATER BY DR. WM. P. MASON, TROY, N. Y.

RENSSELAER POLYTECHNIC INSTITUTE.
DEPARTMENT OF ANALYTICAL CHEMISTRY.

LOCATION.	DATE. 1902	RESULTS IN PARTS PER MILLION.														
		Taste.	Odor.	Color.	Sediment. Quickly falling	Turbidity.	Free Ammonia	Albuminoid Ammonia.	Chlorine.	Nitrogen in Nitrates.	Nitrogen in Nitrites.	Oxygen required to Oxidize Organic Matter at 212° F.	Alkalinity. As parts of C. A. C. O. 3.	Total Solids.	Bacteria. (Per Cubic Centimetre.)	Bacillus. Coli Communis.
Lake Erie (1 mile out)	Jan. 22.....		none	.1	slight	slight	.053	.109	7.	.125	trace	2.05	55.	172.	126.	none
New Intake.....			none	.22	slight	very slight	.122	.139	8.	.15	.0015	3.05	50.	160.	637.	present
Worthington Pump Well..			none	.22	slight	very slight	.099	.128	8.	.2	.0015	2.9	55.	152.	357.	present
Reservoir			none	.17	slight	none	.085	.125	7.	.125	.0015	2·8	50.	148.	229.	present
Lake Erie (2½ miles out) ..	April.....		none	.025	none	decld'd (white)	.056	.159	8.	.025	none	2.3	100.	142.	80.	none
New Intake.....			none	.2	none	slight	.057	.203	8.	.175	trace	2.4	90.	154.	402.	present
Worthington Pump Well..			none	.15	none	slight	1	.166	8.	.2	trace	2.95	85.	145.	533.	present
Reservoir			none	.125	none	very slight	.074	.194	8.	.175	slight trace	2.95	95.	162.	855.	none

Board of Water Commissioners, Erie, Penna.:

Troy, N. Y., February 10, 1902.

Gentlemen—I herewith send the analytical results for the January samples. The waters are not as good as they were in October. At that time you will remember that the reservoir showed no intestinal germs, i. e., bacillus coli communis, whatever. They are now present in all the samples except the lake. Although this must be said, that of the tubes sown there was gas formation in all from the intake samples, and in only one out of five from the reservoir. Therefore, the reservoir water is, let us say, in this particular, five times as good as that from the intake; but is yet not free from the bacillus coli communis as it was in October last. I find the chlorine higher than usual in all the samples and nitrites are also present. As already stated, the waters are not as satisfactory as they were at the date of the last sampling.

Yours very truly,

W. P. MASON.

SUMMARY OF THE LAST SIX REPORTS OF THE ANALYSES MADE BY PROF. MASON, OF SAMPLES OF WATER TAKEN FROM THE LAKE AND NEW INTAKE.

LOCATION.	DATE.	RESULTS IN PARTS PER MILLION.															REMARKS.
		Taste	Odor	Color	Sediment quickly falling	Turbidity	Free Ammonia	Albuminoid Ammonia	Chlorine	Nitrogen in Nitrates	Nitrogen in Nitrites	Oxygen required to oxydize organic matter at 212° F.	Alkalinity as parts of C. A. C. O.$_3$	Total Solids	Bacteria (per cubic centimeter.)	Bacillus Coli Communis	
LAKE ERIE.	April 1, 1901	none	none	.1	none	12.	.039	.075	6.5	.15	minute trace	1.2	42.5	140.0	3000.	none	*The jelly flasks for all the waters arrived in bad condition. It appeared that they had been shipped before the jelly had hardened. In consequence it was not possible to count the colonies of bacteria.
	June 10, 1901	none	none	none	none	none	.02	.095	6.	.075	trace	1	50.	126.	*	none	
	Oct. 1, 1901	none	none	none	none	slight	.0710	.0930	6.	.037	none	.85	50.	134.	70.	none	
	Jan. 22, 1902	.....	none	.1	slight	slight	.053	.109	7.	.125	trace	2.05	55.	172.	126.	none	
	April, 1902.	.....	none	.025	none	decided white	.056	.159	8.	.025	none	2.3	100.	142.	80.	none	
	Feb. 20, 1903	none	none	5.	none	25.	.039	.105	5.	.1	trace	1.7	97.5	147.	2490.	none	
	Average....	.....	.....	4.6	.....	10.3	.046	.106	6.4	.085	trace	1.5	65.8	145.2	961.	.....	
NEW INTAKE.	April 1, 1901	none	none	.1	none	6.	.100	.165	8.	3.	.006	2.65	47.5	145.	5500.	present	
	June 10, 1901	none	none	none	none	none	.07	.215	6.	.075	.003	1.55	50.	160.	.....	present	
	Oct. 1, 1901..	none	none	trace	none	slight	.0540	.1590	6.	.043	.001	2.1	50.	156.	119.	none	
	Jan. 22, 1902	none	none	.22	slight	very slight	.122	.139	8.	.15	.0015	3.05	50.	160.	637.	present	
	April, 1902..	none	none	.2	none	slight	.057	.203	8.	.175	trace	2.4	90.	154.	402.	present	
	Feb. 20, 1903	none	none	10.	none	8.	.053	.165	5	.15	.002	3.	100.	154.	3880.	present	
	Average.....	.....	.....	10.3	.....	2 33	.069	.174	6.83	.149	.0022	2.46	64.6	154.9	2107.	.....	

RENSSELAER POLYTECHNIC INSTITUTE,
DEPARTMENT OF CHEMISTRY.

Troy, N. Y., April 20th, 1903.

Board of Water Commissioners, Erie, Pa.

GENTLEMEN :—Enclosed I send you averages for the analytical results obtained by the examination of samples of water from Lake Erie and from the new intake in the bay during the past two years. There is no question but that the lake furnishes the better water of the two, excepting so far as appearance is concerned. The lake water is uniformly more clouded with white turbidity than waters from the other sampling points.

Allow me to say, in passing, that I have uniformly observed great improvement to obtain by the storage of water in your settling reservoir. Should you take water from the lake, I would strongly recommend that you give it an opportunity to clear itself by reservoir sedimentation, it being my opinion, already expressed to you, that the tendency of the public is very strongly setting towards a demand for a good looking water as well as one which is wholesome. It may be even posible that at some future day this demand for a perfectly clear water may oblige you to construct a filtering plant, even though it be only for the sake of improving the appearance of the water.

Sedimentation basins might be readily constructed upon the peninsula and the settled water pumped to the city. Later, should you desire to do so, a filtering plant might be constructed near the same locality, and filtered water pumped to the consumer.

Yours very truly,

(Signed) WILLIAM P. MASON.

REPORT OF GEORGE Y. WISNER,

M. AM. SOC. C. E.

Detroit, Mich.,
34 W. Congress St.,
July 23rd, 1902.

To the Honorable Commissioners of Water Works, Erie, Penn'a.:

Gentlemen:—In compliance with your request, I visited Erie and looked over your plant and proposed plans for extension of water works intake, on July 15th and 16th, and beg to submit the following report relative to existing conditions of the city water supply, and the necessary measures to adopt in order to secure a pure and wholesome supply for the future.

Erie Harbor, in its orginal condition, was an ideal settling basin for a water supply, in which the water of the lake was both clarified and purified, but with the growth of the City, it has been polluted with sewage and the waste from manufacturing plants to such an extent as to make its use for domestic purposes dangerous to public health.

The bay is about 4½ miles long and has an area of about 5½ square miles, on two square miles of which the water is from twenty to twenty-six feet deep. The bay is practically land-locked, except at the entrance channel, through which the water of the lake flows in and out as the lake rises and falls from the action of the wind.

With the increase of population and manufacturing plants in the City of Erie, the discharge from sewers has gradually polluted the water until some parts of the harbor are little less than a diluted cess-pool, and instead of a clear and wholesome supply existing immediately in front of the pumping plant, as was the case when the works were established, the water of the entire bay is more or less polluted at all times.

A general knowledge of the present conditions is sufficient on which to base the conclusion that a radical change in the source of supply is absolutely necessary, but in order to show the effect of sewage on the water of the bay, the following table giving the analysis of the lake and harbor water for different dates, has been compiled from the reports of Commissioners of Water Works.

SAMPLE AND DATE	PARTS IN 1,000,000 PARTS.						CHEMIST.
	Total Solids.	Free Ammonia.	Albuminoid Ammonia.	Oxygen Consumed.	Nitrogen as Nitrates.	Chlorine.	
Channel at Piers Dec. 1889	....	0.137	0.055	....	0.285	1.937	C. M. Cresson
Lake, north of Whallons Pier, Dec. 1889	....	0.027	0.055	....	trace	1.772	" " "
Inlet of W. W. Dec. 1889	....	0.027	0.083	....	0.171	3.188	" " "
Water Office Dec. 1889	....	0.055	0.165	....	trace	2.828	" " "
No. 1 Intake Pipe June 1892	132	0.100	0 175	2.85	trace	6.	Wm. P. Mason
No. 2 West of Pittsburg Dock June 1892	128	0.130	0.200	2.85	"	6.	" " "
No. 3 Big Bend June 1892	138	0.065	0.145	2.35	"	7.	" " "
No. 4 Open Lake June 1892	138	0.020	0.135	2.55	"	5.	" " "
No. 5 Faucet in Residence June 1892	141	0.050	0.190	2.79	"	6.	" " "
No. 6 Well in Eastern Part of City, June 1892	596	0.125	0.190	5.96	18.7	39.	" " "
No. 1 June 1892	143	0 378	0.594	....	0.05	4.5	C. M Cresson
No. 2 June 1892	136	0.324	0.676	....	0.05	5.0	" " "
No. 3 June 1892	140	0.216	0.810	....	0.05	5.2	" " "
No. 4 June 1892	132	0.243	0.540	....	0.09	5.3	" " "
No. 5 June 1892	158	0.162	0.594	....	0.10	5.	" " "
No. 6 June 1892	108	0.108	0.540	...	.10	5 6	" " "
No. 1 June 1892	132	0.06	0.11	2.16	0	4.13	H B.Cornwall
No. 2 June 1892	132	0.12	0.12	2.72	0	3.86	" " "
No. 3 June 1892	136	0.09	0 17	1.44	trace	3.86	" " "
No. 4 June 1892	132	0.04	0.13	1.42	0	3.50	" " "
No. 5 June 1892	141	0.06	0.16	1.56	0	4.00	" " "
No. 6 June 1892	309	0.00	0.02	0.08	3.14	9.50	" " "
Lake Erie June 1900	71	0.084	0.046	1.35	0.137	2.	Wm. P. Mason
New Intake June 1900	115	0.155	0.146	2.5	0.137	2.	" " "
Reservoir June 1900	....	0.099	0.112	2.95	0.137	2.	" " "
Lake Erie Sept. 1900	145	0.047	0 115	1.75	0.075	6.5	" " "
New Intake Sept. 1900	105	0.073	0.133	2.7	0.063	9.5	" " "
Reservoir Sept. 1900	129	0.042	0.199	2.4	0.05	9.5	" " "
Lake Erie Nov. 1900	137	0.012	0.022	1.35	0.025	6.0	" " "
New Intake Nov. 1900	171	0.081	0.048	2.75	0.087	8.0	" " "
Reservoir Nov. 1900	146	0 028	0.060	2 45	0.025	8.0	" " "
Lake Erie Feb. 1901	152	0.03	0.127	1.2	0.2	8.	" " "
New Intake Feb. 1901	135	0.08	0.112	2.1	0 2	8.5	" " "
Reservoir Feb. 1901	143	0.07	0.155	2.0	0.2	8.5	" " "

With water coming from the same lake the relative amount of chlorine contained in the different samples indicates the amount of sewage contamination, while the increase of the free ammonia and albuminoid ammonia indicates organic pollution of the bay water both from sewage aand decaying vegetable matter.

It will be noted that in all cases the amount of chlorine in the water from the bay and from the water works pipes is in excess of that in the lake water, and that the free ammonia and albuminoid ammonia in the water from the harbor are several times the amounts in the lake water.

If the respective samples analyzed by Messrs. Mason, Cresson and Cornwall, in June, 1892, were in each case taken at the same time and locality for each set, there must be some error in the determination of the amount of free ammonia and albuminoid ammonia by Dr. Cresson, as the parts per million given by him do not agree for any of the samples with those determined by Profs. Mason and Cornwall, and besides, it is largely in excess of the amount in the lake, unless thoroughly contaminated, which does appear to be the case in the other samples.

Under existing conditions there seems to be but three procedures open to your commission in order to supply the City of Erie with clear and wholesome water, viz.:

1st. To discontinue the discharge of sewage into the harbor, by conducting it in intercepting sewers outside the harbor entrance.

2nd. To purify the water of the bay by filtration.

3rd. To extend the intake pipe to deep water in the lake, north of the Peninsula, and pass the water through large settling basins on the Peninsula to clarify it when roily.

From the experience of your Honorable Commission in the past the first of these expedients seems impossible to accomplish, at least without long and tedious legal proceedings.

With the rapid increase in population and manufacturing plants of the City, it is probable that the pollution of the harbor water in a few years will become such as to be unsafe for domestic purposes, even when filtered, and therefore, to procure a supply of water from the open lake seems to be the only safe solution of the problem.

If at any time in the future it is found desirable to furnish the City with a purer supply than to be obtained from the open lake, it will be far better to purify such a supply from the lake with slow sand filters on the Peninsula than to take any chances with the polluted water to be obtained from the Erie Harbor.

While it is true that in experimental plants, operated by specialists, polluted water can be made pure and wholesome, plants of dimensions suitable for supplying large cities do not give at all times like satisfactory results, and it is generally conceded to be the duty of every city to make use of the purest supply obtainable.

In the case for the City of Erie such a supply must come from the deep water of the lake, north of the Peninsula. The 20 ft. curve in the lake is about 1,700 feet from the shore, and the 34 ft. depth at about 3,800 feet, at the location where the intake pipe should be laid, and as sand movement from wave action on Lake Erie seldom extends to greater depth than 20 feet, the only sediment likely to reach an intake 3,800 feet from the shore, would be fine particles of clay, which could be removed in the settling basins on the Peninsula. At times of extreme turbidity a small amount of coagulent may have to be added to the water on entering the settling basins to render the water perfectly clear in the time allowed the supply to pass through the basins.

The intake crib should be of the submerged type, and should have not less than 24 feet of water over top of crib, and be provided with intake ports on the sides as well as top to insure against stoppage from anchor ice.

The crib should be imbedded in the sand about 10 feet below the bottom of the lake, and after placing should have its sides revetted with broken stone for about five feet above lake bottom.

A five foot steel intake pipe constructed with butt end joints and strap covers, will be ample to furnish the necessary supply for many years to come, and when an additional supply may be needed it will be much better to then lay a second pipe than to undertake to put down a large intake at the present time.

During the coming winter a careful study should be made of the ice action in the lake with reference to determining whether any arrangements for removing anchor ice from the intake crib will be necessary.

The effect of wave action and lake currents in eroding the shore of the Peninsula is well known and should be carefully guarded against by the construction of several jetties or groins at right angles to the shore, both east and west of the location of the intake pipe. Without such protection the intake pipe in shallow water might become uncovered and give trouble.

The settling basins on the Peninsula should be of such dimensions and so arranged as to allow all sediment in the lake water to settle before reaching the pipe leading from the basins across the bay to the pumping works.

Each basin should be surrounded by sheet piling to sufficient depth to prevent any seep-water reaching the basins from the adjacent soil, and all ponds in the immediate vicinity of the basins should be filled with material excavated from basins during construction.

Presque Isle Peninsula has undoubtedly been formed by natural agencies in the open lake, and as the original depths at the proposed location for the intake pipe was probably from 20 feet to 30 feet, it is fair to presume that all material above such elevation has been deposited by wave action. For all depths of over five feet below lake level pure lake sand will probably be found. The vegetable mold above this sand should all be removed on the immediate margin surrounding the basins, both inside and outside of the sheet piling.

The depth to which the sheet piling should be driven cannot be stated until the proposed surveys and examinations now underway are completed.

The development of these examinations and the amount of data to be obtained should be under the direct supervision of a competent engineer whom you expect to have make the detail plans for the intake pipe and crib.

The nature and scope of these surveys depend largely upon the results obtained from day to day, especially as regards the characteristics of the materials below water level at location for the settling basins, and the determination of the best location for the intake crib from the contours of the lake bottom.

I therefore wish to urge that you secure the services of a competent engineer at the earliest date consistent with giving the matter of selection proper consideration.

In this connection, I wish to say the best engineering advice is always the most economical, even though in the single matter of salary it may not be the cheapest obtainable, and I cannot urge too strongly that you secure the services of an engineer who can give you the very best up-to-date designs for your structures, and has the executive ability to see that they are properly constructed.

In order to obtain water from the lake at the earliest date possible, it may be found advisable to connect up the intake pipe from the crib to the Peninsula directly with the pipe leading to the pumping works at the City before the settling basins are completed.

To do this, the necessary valves and connections will have to be provided for in making designs for pipe line across the Peninsula.

With such an arrangement the water would not be clear at all times, but would be a great improvement in wholesomeness over the supply now in use, and if for any reason the settling basins cannot be constructed as soon as the pipe line, it may be found to the best interests of the City to provide for such an arrangement.

Respectfully submitted,

GEORGE Y. WISNER.

DRINKING FOUNTAINS FOR MAN, HORSE AND DOG.

Manufactured by J. L. Mott Iron Works, New York and Chicago.

STYLE.	DATE OF INSTALLATION.	WHERE LOCATED.
No. 1	October 26, 1894	South Park Row between State and French streets.
No. 2	June 13, 1894	Turnpike, Southwest corner State street.
No. 2	June 16, 1894	Parade and Southeast corner Tenth street.
No. 2	July 3, 1895	State and Southeast corner Eighteenth street.
No. 2	July 26, 1895	Parade, East Side, between Twelfth and Thirteenth streets.
No. 2	October 2, 1895	State, East Side, between Third and Fourth streets.
No. 2	June 16, 1896	Chestnut and Southeast corner Eighteenth street.
No. 2	July 31, 1897	Peach and Southeast corner Twenty-sixth street.
No. 2	August 5, 1897	Eighth street, Northwest corner Cranberry street.
No. 2	August 14, 1900	Peach and Lakeside Park.
No. 3	August 22, 1900	Water Works Park.
No. 2	July 24, 1901	Buffalo Road end of main.
No. 4	December 12, 1902	Center of Eliot avenue, west line of Waterford avenue.

STYLE NO. 1—Square base; ornamental top, with square sides; three places for man, one for horses.

STYLE NO. 2—Square base; oval sides, with plain top; one place for man, one for horses, two for dogs.

STYLE NO. 3—Flat base; oval sides, with plain top; one place for man.

STYLE NO. 4—Cast iron water pipe, 20-in. diameter, 7 ft. long and stands 4½ ft. above ground.

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37th
Annual Report

Commissioners

Water Works

City of Erie, Penna.

Councils.

37TH

ANNUAL REPORT

OF THE

★ COMMISSIONERS OF

WATER WORKS,

IN THE CITY OF ERIE,

ERIE, PENN'A,

TO THE

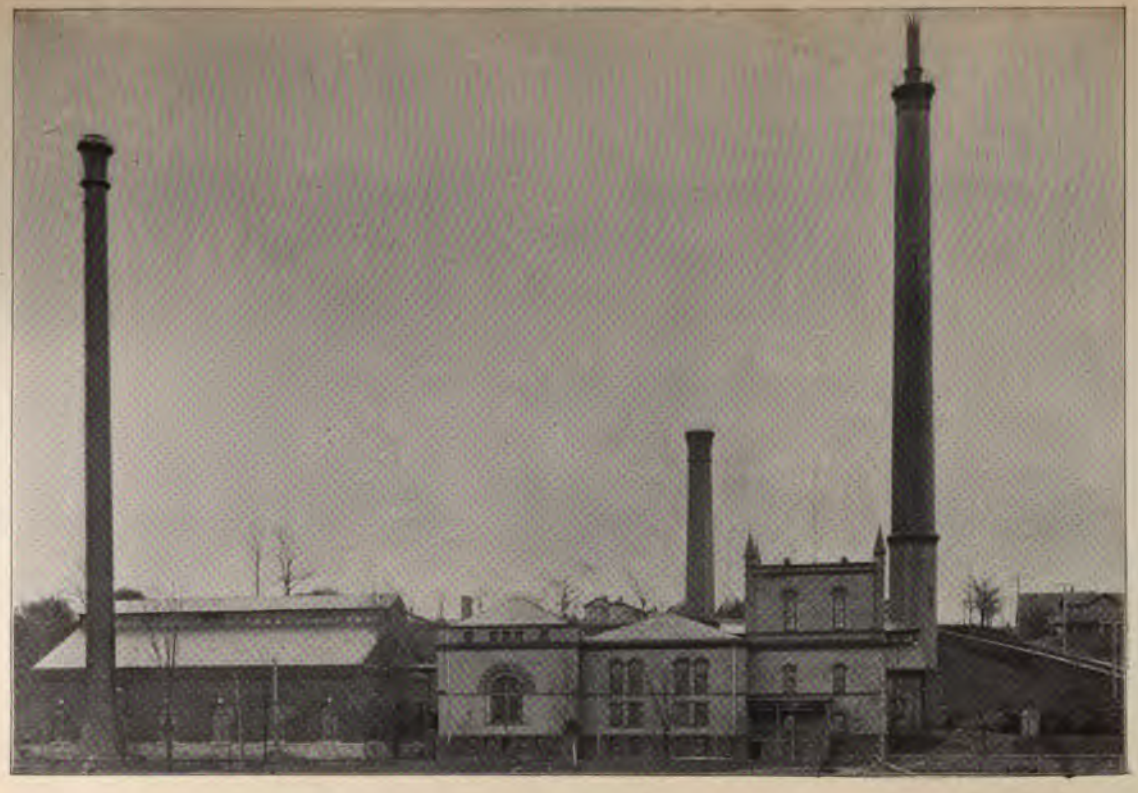
COUNCILS,

FOR THE

YEAR ENDING DECEMBER 31, 1903.

ERIE, PA.:
DISPATCH PRINTING & ENGRAVING CO.
1904.

Transferred 16 V 35



Pumping Station as Seen from the Bay.

COMMISSIONERS OF WATER WORKS,

IN THE CITY OF ERIE,

ERIE, PENN'A.

CLARK OLDS,

G. F. BREVILLIER,

WILLIS B. DURLIN.

OFFICERS.

CLARK OLDS,
ASSC. M. AM. SOC. C. E.,
President.

GEORGE C. GENSHEIMER,
Secretary and Treasurer.

JOHN KOLB,
Assistant Secretary.

F. A. ROTH,
Chief Engineer at Pumping Station.

R. T. WALKER,
Superintendent of Street Work.

OFFICE, CITY HALL.

OFFICE HOURS. From 8:00 a. m. to 5:00 p. m.; on Mondays to 9:00 p. m.

REGULAR MEETINGS OF THE COMMISSIONERS. Every Saturday at 3:00 p. m., and the first of each month at 11 a. m., except when it occurs on Sunday they then meet the following day. Special meetings when necessary.

ANNUAL REPORT.

To the Councils of the City of Erie, Pa.:

GENTLEMEN:

We herewith submit the thirty-seventh annual report of this department, for the year ending December 31, 1903.

RECEIPTS.

Balance in City Treasury Dec. 31, 1902			$ 45,855.87
From Water Rents:			
Assessments	$114,547.39		
Meters	33,236.72		
Building Permits	1,098.96		
Special Permits	183.47		
		$149,066.54	
Plumbing and material sold		2,172.64	
			$151,239.18
Total			$197,095.05

DISBURSEMENTS.

Construction	$ 36,044.84	
Maintenance	13,564.62	
Operating	33,665.01	
Accounting	8,541.33	
Sundries	111.41	
Legal	312.75	
		$ 92,239.96
Balance in City Treasury Dec. 31, 1903		104,855.09
Total		$197,095.05

The increase in the receipts of the department for the year 1903, from water, amounted to the sum of $5,781.43, from other sources $2,172.64.

The amount of water pumped was 3,315,335,518 gallons, an increase over the previous year of 90,974,764 gallons.

The daily average pumpage was 9,083,110 gallons. The daily average per capita pumpage based upon a population of 56,363 was 161.15 gallons.

The amount of water furnished by meter measurement to manufactories and other large consumers was 762,844,694 gallons, which deducted from the total amount of water pumped gives the approximate amount of water furnished for domestic use, viz., 2,552,490,824 gallons, or a daily average per capita of 124 gallons.

The daily average lift for the low service system was 236.09 feet, and for the high service system 273.11 feet.

A little over one and one-half miles of new mains were laid, making the total length of mains in use Dec. 31, 1903, 115¼ miles.

We request you to audit the accounts of the department, this important duty having been neglected for seven years.

The sewage from the city continues to pollute the water in the bay, from which the supply for the city is taken. The city not having taken any steps to care for its sewage, although requested for many years to do so, this department has committed itself to the plan of extending the intake pipe to a point in Lake Erie, one mile north of the Peninsula, and to construct sedimentation basins in the Peninsula, where the lake water can be stored and clarified.

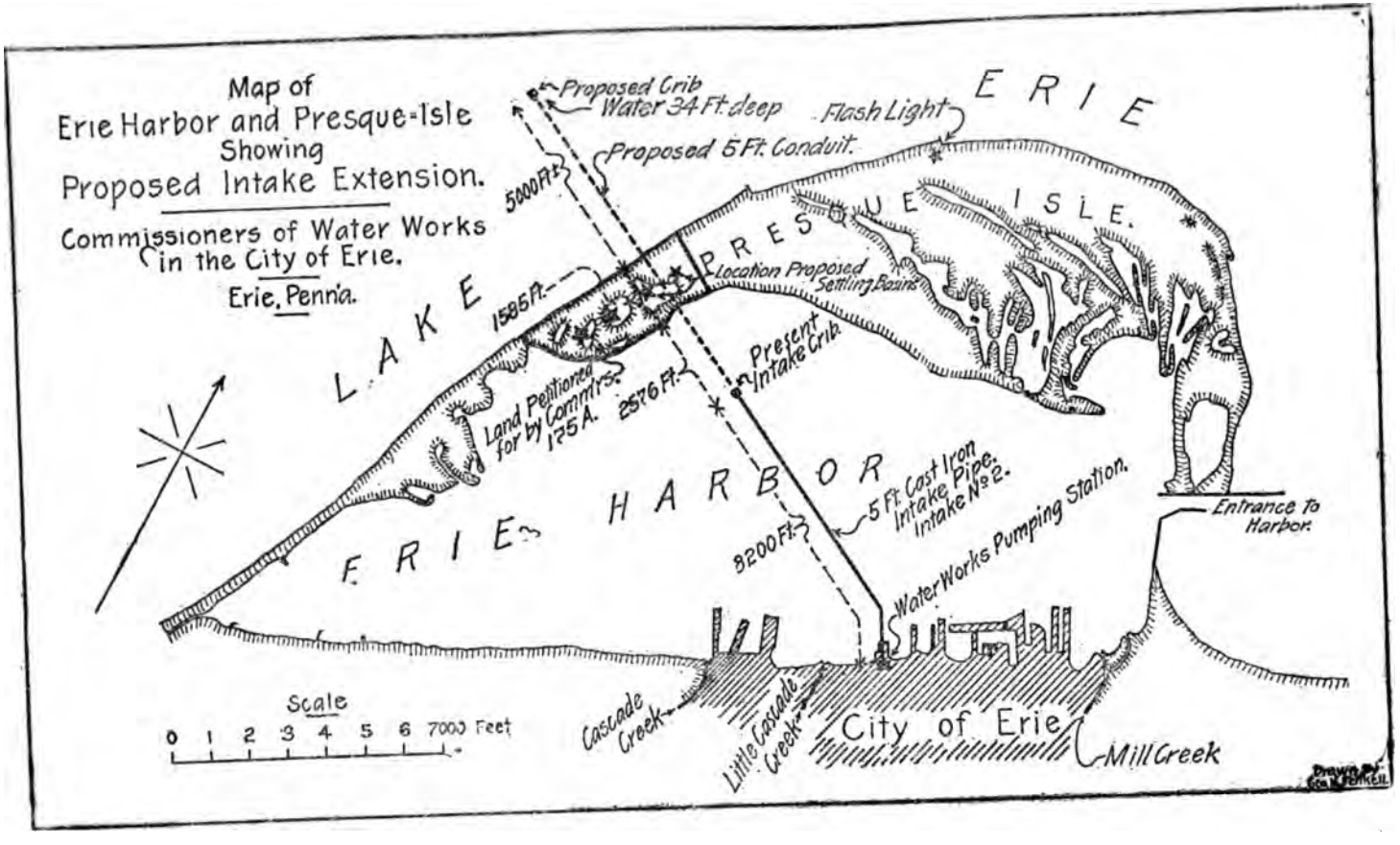
The State of Pennsylvania has conveyed to the Commissioners one hundred and seventy-five acres of land on the Peninsula, to be used for Water Works purposes. The General Government has been asked to convey its title to the said tract for the same purposes.

This tract of land is very valuable to the city.

The plans and specifications for the extension of the intake pipe were prepared and bids invited for the work, but were rejected on account of the high price of iron and the small amount of money on hand. We hope to lay one section of this pipe during the coming season. The amount of money on hand and available for this work on Dec. 31, 1903, amounted to $104,855.09.

Respectfully submitted,

CLARK OLDS,
G. F. BREVILLIER,
WILLIS B. DURLIN.


Map of
Erie Harbor and Presque-Isle
Showing
Proposed Intake Extension.
Commissioners of Water Works
in the City of Erie.
Erie, Penn'a.
Proposed Crib
Water 34 Ft. deep
Flash Light
Proposed 5 Ft. Conduit.
5000 Ft.
1585 Ft.
LAKE ERIE
PRESQUE ISLE.
Location Proposed Settling Basins
Present Intake Crib.
Land Petitioned for by Commrs.
175 A.
2576 Ft.
ERIE HARBOR
5 Ft. Cast Iron Intake Pipe. Intake No. 2.
8200 Ft.
Water Works Pumping Station.
Entrance to Harbor.
Scale
0 1 2 3 4 5 6 7000 Feet
Cascade Creek
Little Cascade Creek
City of Erie
Mill Creek

Commissioners of Water Works, in the City of Erie, from Organization to December 31, 1903.

The Commissioners of Water Works, in the City of Erie, are appointed by the Court of Common Pleas of Erie County, Penn'a, for a term of three years, one member being named annually, in May.

1867	*W. L. Scott,	*Henry Rawle,	*Wm. W. Reed.
1868	*John C. Selden,	*Henry Rawle,	*Wm. W. Reed.
1869	*John C. Selden,	*Henry Rawle,	*Wm. W. Reed.
1870	*John C. Selden,	*Henry Rawle,	*Wm. W. Reed.
1871	*†John C. Selden,	*Henry Rawle,	*Wm. W. Reed.
1872	*Matthew R. Barr,	John Gensheimer,	*Wm. W. Reed.
1873	*Matthew R. Barr,	John Gensheimer,	*Wm. W. Reed.
1874	*Matthew R. Barr,	John Gensheimer,	*Wm. W. Reed.
1875	*Matthew R. Barr,	John Gensheimer,	*Wm. W. Reed.
1876	*Matthew R. Barr,	John Gensheimer,	*Wm. W. Reed.
1877	Michael Liebel,	John Gensheimer,	*Wm W. Reed.
1878	Michael Liebel,	*J. M. Bryant,	*Wm. W. Reed.
1879	Michael Liebel,	*J. M. Bryant,	*G. W. F. Sherwin.
1880	Michael Liebel,	*J. M. Bryant,	*G. W. F. Sherwin.
1881	Michael Liebel,	Benjamin Whitman,	*G. W. F. Sherwin.
1882	Michael Liebel,	Benjamin Whitman,	*G. W. F. Sherwin.
1883	Michael Liebel,	Benjamin Whitman,	*G. W. F. Sherwin.
1884	Michael Liebel,	Benjamin Whitman,	*G. W. F. Sherwin.
1885	Michael Liebel,	Benjamin Whitman,	*Geo. W. Starr.
1886	C. Kessler,	Benjamin Whitman,	*Geo. W. Starr.
1887	C. Kessler,	C. J. Brown,	*Geo. W. Starr.
1888	C. Kessler,	C. J. Brown,	*Geo. W. Starr.
1889	C. Kessler,	C. J. Brown,	*Geo. W. Starr.
1890	C. Kessler,	C. J. Brown,	*Geo. W. Starr.
1891	C. Kessler,	C. J. Brown,	Wm. Hardwick.
1892	T. W. Shacklett,	C. J. Brown,	Wm. Hardwick.
1893	T. W. Shacklett,	C. J. Brown,	Wm. Hardwick.
1894	T. W. Shacklett,	C. J. Brown,	Wm. Hardwick.
1895	T. W. Shacklett,	‡C. J. Brown,	Wm. Hardwick.
1896	T. W. Shacklett,	Clark Olds,	Wm. Hardwick.
1897	T. W. Shacklett,	Clark Olds,	Wm. Hardwick.
1898	T. W. Shacklett,	Clark Olds,	Wm. Hardwick.
1899	T. W. Shacklett,	Clark Olds,	Wm. Hardwick.
1900	T. W. Shacklett,	Clark Olds,	G. F. Brevillier.
1901	Willis B. Durlin,	Clark Olds,	G. F. Brevillier.
1902	Willis B. Durlin,	Clark Olds,	G. F. Brevillier.
1903	Willis B. Durlin,	Clark Olds,	G. F. Brevillier.

*Dead.

†Mr. Selden resigned before the expiration of his second term; Mr. Barr was substituted by the other Commissioners, and afterward appointed by the Court.

‡C. J. Brown resigned December 28, 1895, having been elected Treasurer of Erie County, Penn'a. Clark Olds was chosen by the other Commissioners for the unexpired term, on recommendation of the Court, January 2, 1896.

Officers of Water Works, from Organization to December 31, 1903.

	President.	Secretary and Treasurer.	Assistant Secretary.
1867	*Wm. W. Reed,	*Wm. Brewster,	.....
1868	*Wm. W. Reed,	*Wm. Brewster,	.....
1869	*Wm. W. Reed,	*J. C. Perkins,	.....
1870	*Wm. W. Reed,	*J. C. Perkins,	.....
1871	*Wm. W. Reed,	*J. C. Perkins,	.....
1872	*Wm. W. Reed,	*J. C. Perkins,	.....
1873	*Wm. W. Reed,	*J. C. Perkins,	.....
1874	*Wm. W. Reed,	*J. C. Perkins,	.....
1875	*Wm. W. Reed,	*J. C. Perkins,	.....
1876	*Wm. W. Reed,	*J. C. Perkins,	.....
1877	*Wm. W. Reed,	*J. C. Perkins,	.....
1878	*Wm. W. Reed,	*J. C. Perkins,	.....
1879	Michael Liebel,	*B. F. Sloan,	.....
1880	Michael Liebel,	*B. F. Sloan,	.....
1881	*G. W. F. Sherwin,	*B. F. Sloan,	.....
1882	*G. W. F. Sherwin,	*B. F. Sloan,	.....
1883	*G. W. F. Sherwin,	*B. F. Sloan,	.....
1884	Benjamin Whitman,	*B. F. Sloan,	Geo. C. Genshiemer.
1885	Benjamin Whitman,	*B. F. Sloan,	Geo. C. Gensheimer.
1886	Benjamin Whitman,	*B. F. Sloan,	Geo. C. Gensheimer.
1887	*Geo. W. Starr,	*B. F. Sloan,	Geo. C. Gensheimer.
1888	*Geo. W. Starr,	*B. F. Sloan,	Geo. C. Gensheimer.
1889	*Geo. W. Starr,	*B. F. Sloan,	Geo. C. Gensheimer.
1890	*Geo. W. Starr,	*B. F. Sloan,	Geo. C. Gensheimer.
1891	C. J. Brown,	*Wm. Himrod,	Geo. C. Gensheimer.
1892	C. J. Brown,	*Wm. Himrod,	Geo. C. Gensheimer.
1893	C. J. Brown,	*Wm. Himrod,	Geo. C. Gensheimer.
1894	Wm. Hardwick,	*Wm. Himrod,	Geo. C. Gensheimer.
1895	Wm. Hardwick,	*Wm. Himrod,	Geo. C. Gensheimer.
1896	T. W. Shacklett,	*Wm. Himrod,	Geo. C. Gensheimer.
1897	T. W. Shacklett,	*Wm. Himrod,	Geo. C. Gensheimer.
1898	T. W. Shacklett,	*Wm. Himrod,	Geo. C. Gensheimer.
1899	Clark Olds,	*Wm. Himrod,	Geo. C. Gensheimer.
1900	Clark Olds,	*Wm. Himrod,	Geo. C. Gensheimer.
1901	Clark Olds,	*Wm. Himrod,	Geo. C. Gensheimer.
1902	Clark Olds,	Geo. C. Gensheimer,	John Kolb.
1903	Clark Olds,	Geo. C. Gensheimer,	John Kolb.

*Dead.

NOTE.—Mr. Brewster was elected June 14, 1867; resigned October 26, 1868, to take effect November 2, 1868; served 1 year, 4 months and 18 days. Mr. Perkins was elected October 26, 1868, to take effect November 2, 1868; resigned March 30, 1878; same accepted December 21, 1878, to take effect January 1, 1879; served 10 years, 1 month and 29 days. Mr. Sloan was elected December 21, 1878, to take effect January 1, 1879; continued in office to June 1, 1891; served 12 years and 5 months. Mr. Himrod was appointed Secretary May 23, 1891, to take effect June 1, 1891; served 11 years. Mr. Gensheimer was appointed Assistant Secretary January 26, 1884, and Secretary and Treasurer June 14, 1902. Mr. Kolb was appointed Assistant Secretary June 14, 1902.

Monthly Receipts from all Sources during the Year Ending December 31, 1903.

MONTH.	Assessment.	Meter.	Special.	Plumbing	Building.	Total.
January...	$25,368 07	$7,748 02	$19 09	$272 74	$18 26	$33,426 18
February..	2,560 00	.....	5 00	203 97	52 85	2,821 82
March.....	204 71	71 84	1 50	486 65	61 84	826 54
April.....	25,056 47	7,801 67	7 08	32 76	42 18	32,940 16
May.....	2,927 31	5 26	18 00	25 60	153 75	3,129 90
June.....	604 94	251 24	24 00	151 39	98 86	1,130 43
July.....	25,714 91	8,161 75	21 75	148 08	182 01	34,228 50
August.....	2,820 62	5 94	17 00	13 46	204 32	3,061 34
Septemb'r	350 89	127 66	43 57	123 02	84 30	729 44
October ...	26,262 83	9,047 60	8 75	63 28	127 06	35,509 52
November	2,645 50	.....	15 89	603 99	59 41	3,324 79
December	31 14	15 74	1 84	47 70	14 14	110 56
	$114,547 39	$33,236 72	$183 47	$2,172 64	$1,098 96	$151,239 18

Receipts from each Ward during the Year Ending December 31, 1903.

WARD.	Assessment.	Meter.	Special.	Plumbing	Building.	Total.
First.....	$15,260 91	$3,103 58	$5 34	$ 79 54	$ 98 62	$18,547 99
Second	23,476 57	16,373 13	12 64	986 06	294 72	41,143 12
Third.....	27,257 22	7,824 93	53 57	872 79	280 75	36,289 26
Fourth	20,955 30	1,391 84	34 58	86 11	168 02	22,635 85
Fifth.....	12,587 57	2,352 45	.....	10 42	152 91	15,103 35
Sixth.....	13,297 58	606 51	55 34	15 74	89 46	14,064 63
Seventh ...	1,712 24	1,584 28	22 00	121 98	14 48	3,454 98
	$114,547 39	$33,236 72	$183 47	$2,172 64	$1,098 96	$151,239 18

Cash Account of Secretary and Treasurer of Commissioners of Water Works, in the City of Erie, for the Year Ending December 31, 1903.

MONTH.	Receipts.	Deposited with Treasurer City of Erie.	Balance in Office at Close of Business Each Month
January	$33,426 18	$29,681 78	$3,744 40
February	2,821 82	6,470 28	95 94
March	826 54	862 28	60 20
April	32,940 16	29,639 12	3,361 24
May	3,129 90	6,352 45	138 69
June	1,130 43	1,029 13	239 99
July	34,228 50	31,408 30	3,060 19
August	3,061 34	6,014 55	106 98
September	729 44	731 77	104 65
October	35,509 52	31,936 54	3,677 63
November	3,324 79	6,930 07	72 35
December	110 56	182 91	.....
Total	$151,239 18	$151,239 18	

Statement of Account with Treasurer of the City of Erie, for the Year Ending December 31, 1903.

MONTH.	Received from Sec'y and Treas. Commissioners of Water Works in the City of Erie.	Paid on Warrants of Commissioners of Water Works in the City of Erie.	Monthly Balances.
Balance from 1902	$45,855 87	.....	.....
January	29,681 78	$4,613 97	$70,923 68
February	6,470 28	5,212 51	72,181 45
March	862 28	3,736 52	69,307 21
April	29,639 12	6,103 28	92,843 05
May	6,352 45	7,101 10	92,094 40
June	1,029 13	8,149 37	84,974 16
July	31,408 30	7,654 01	108,728 45
August	6,014 55	10,468 05	104,274 95
September	731 77	7,396 64	97,610 08
October	31,936 54	11,239 42	118.307 20
November	6,930 07	6,961 20	118,270 07
December	182 91	13,603 89	104,855 09
Total	$197,095 05	$92,239 96	$104,855 09

Amount Collected Annually for Water Furnished, Showing Total Collections, also the Increase and Decrease Each Year Since the Commencement of the Water Works.

Year Ending Dec. 31st.	RECEIVED.		ANNUAL.	
	Annually.	Totals.	Increase.	Decrease.
1869	$ 4,264 47	$.....	$.....	$.....
1870	9,237 30	13,501 77	4,972 83	.....
1871	18,138 08	31.639 85	8,900 78	.....
1872	21,652 68	53,292 53	3,514 60	.....
1873	25,560 40	78,852 93	3,907 72	.....
1874	27,938 90	106,791 83	2,378 50	.....
1375	29,639 38	136,431 21	1,700 48	.....
1876	31,048 76	167,479 97	1,409 38	.....
1877	32,276 57	199,756 54	1,227 81	.....
1878	29,636 01	229,392 55	.....	2,640 56
1879	33,343 20	262,735 75	3,707 19	.....
1880	37,385 00	300,120 75	4,041 80	.....
1881	40,385 87	340,506 62	3,000 87	.....
1882	43,818 73	384.325 35	3,432 86	.....
1883	48,269 89	432,595 24	4,451 16	.....
1884	51,852 78	484,448 02	3,582 89	.....
1885	53,550 35	537,998 37	1,697 57	.....
1886	58,725 00	596,723 37	5,174 65	.....
1887	67,121 92	663,845 29	8,396 92	.....
1888	73,197 03	737,042 32	6,075 11	.....
1889	81,110 68	818,153 00	7,913 65	.....
1890	87,279 96	905,432 96	6,169 28	.....
1891	93,891 55	999,324 51	6,611 59	.....
1892	105,527 03	1,104,851 54	11,635 48	.....
1893	111,247 43	1,216,098 97	5,720 40	.....
1894	111,821 94	1,327,920 91	574 51*	.....
1895	116,927 63	1,444,848 54	5,105 69	.....
1896	121,442 94	1,566,291 48	4,515 31	.....
1897	124,106 61	1,690,398 09	2,663 67	.....
1898	131,303 48	1,821,701 57	7,196 87	.....
1899	139,344 02	1,861,054 59	8,040 54	.....
1900	122,198 58	2,083,253 17	.....	17,145 44‡
1901	133,879 87	2,217,133 04	11,681 29	.....
1902	143,285 11	2,360,418 15	9,405 24	.....
1903	151,239 18	2,511,657 33	7,954 07	.....

*Meter rates for water changed from a sliding scale of 6 cents to 10 cents per 1,000 gallons, according to amount consumed, to a flat rate of 6 cents per 1,000 gallons, causing a reduction in receipts of $5,000.00.

‡Meter rates changed from six cents per one thousand (1,000) gallons to twenty (20) cents for each one thousand (1,000) gallons for the first twenty-five thousand (25,000) gallons, and four (4) cents for each one thousand (1,000) gallons consumed thereafter during each current quarter. Same took effect July 1, 1899. Family rates changed from $5.00 per annum to $4.00, taking effect January 1, 1900. These changes in rates account for the heavy decrease in the receipts for 1900.

STATEMENT OF WARRANTS ISSUED IN 1903.

January.

TO PAY VOUCHER.

Date.	No.	Of For	Amount.
3	12278	Mrs. Gertrude Beckman, Rent of Office, acc't Intake No. 2, Ex.....	12 00
	12279	John Kolb, Ass't Sec'y, Sundries	13 40
	12280	Pay Roll—street work, Disbursed by W. C. Siegel, Clerk.....	172 87
10	12281	T. S. Buck Mfg. Co., Ink	1 15
	12282	Union Iron Works, Steel	1 22
	12283	Emil Strueber, Tallow	1 36
	12284	Jarecki Mfg. Co., Fittings	1 88
	12285	Erie Mfg. & Supply Co., Water, Glasses and Packing	2 10
	12286	John H. Walker, Stationery	2 50
	12287	The Himrod Engraving Co., Printing Quarterly Bills, Ink and Mucilage....	3 00
	12288	Fred J. Miller, Sheet Lead	3 00
	12289	O. C. Thayer & Son, Cement, Stove Pipe, etc.	3 18
	12290	Municipal Journal & Engineer, Subscription from Oct., 1902, to Dec., 1903....	3 75
	12291	South Erie Iron Works, Repairs to Stove at Shop	3 96
	12292	R. T. Walker, Rent of Barn, one month	4 00
	12293	Erie Company, Coke	4 30
	12294	C. Kessler, Tallow, Soap and Wicking	4 45
	12295	Engineering News, Annual Subscription	5 00
	12296	Emil Beyer, Clock for Office	6 00
	12297	Standard Brick Works, Brick	6 75
	12298	David Schlosser, Lumber	8 74
	12299	E. J. Klang, Horse-Shoeing	9 60
	12300	Wm. Schade, Blacksmithing	11 42

January—Continued.

TO PAY VOUCHER.

Date.	No.	Or For	Amonnt.
	12301	James L. Firman, Teaming	11 64
	12302	Erie Window Glass Co., Glass and Brush	12 05
	12303	Franklin Coal Co., Coal	12 75
	12304	John Reinhold, Jr., Paint, Polish, etc.	15 80
	12305	Keystone Brass Co., Brass, Castings, Rods, etc.	19 82
	12306	The Electric Equipment Co., Electric Light Plant Repairs	27 52
	12307	E. J. Riblet, Furniture	33 40
	12308	Curtis Johnson & Son, Lumber	36 38
	12309	A. S. Pinney, Hardware	37 20
	12310	Hays Mfg. Co., Pipe and Fittings	38 56
	12311	Globe Iron Foundry Co., Sleeves and Saddles	39 88
	12312	National Meter Co., Meters	50 00
	12313	Mehl & Sapper, Hardware	104 34
	12314	Erie Oil Co., Oil	122 71
	12315	R. D. Wood & Co., Fire Hydrants	156 00
	12316	The W. L. Scott Co., Coal	578 00
	12317	John Kolb, Ass't Sec'y, Sundries	10 85
	12318	Pay Roll—street work, Disbursed by W. C. Siegel, Clerk	196 07
17	12319	Keystone Electric Co., Repairs to Electric Light Plant	5 64
	12320	John Kolb, Ass't Sec'y, Sundries	18 62
	12321	Pay Roll—street work, Disbursed by W. C. Siegel, Clerk	192 88
24	12322	Pay Roll—street work, Disbursed by W. C. Siegel, Clerk	272 05
31	12323	Mrs. Gertrude Beckman, Rent of Office, acc't Intake No. 2	12 00
	12324	John Kolb, Asst' Sec'y, Sundries	28 29
	12325	Pay Roll—street work, Disbursed by W. C. Siegel, Clerk	212 56
	12326	Pay Roll—Pumping Station, Disbursed by John Kolb, Ass't Sec'y,	1,025 00
	12327	Pay Roll—Office and Inspectors, Disbursed by John Kolb, Ass't Sec'y	1,058 33
		Total	$ 4,613 97

February.

TO PAY VOUCHER.

Date.	No.	Of For	Amount.
7	12328	John Kolb, Ass't Sec'y, Sundries	17 91
	12329	Pay Roll—street work, Disbursed by W. C. Siegel, Clerk	308 17
14	12330	Herald Printing & Publishing Co., Advertising,	1 00
	12331	Times Publishing Co., Advertising	1 30
	12332	Erie Company, Coke	1 50
	12333	The Electric Equipment Co., Repairs to Electric Light Plant	1 52
	12334	Dispatch News Co., Advertising	1 80
	12335	The Keystone Electric Co., Repairs to Electric Light Plant	2 00
	12336	Eugene Dietzgen Co., Supplies for Engineer Intake No. 2 Ext.	2 10
	12337	John Reinhold, Jr., Paints, etc.	2 35
	12338	Harry Thompson, Work on Arithmometer	2 50
	12339	Murphy Bros., Material	2 65
	12340	H. C. Gross, Wood	2 75
	12341	Erie Machine Shop, Material and Labor	2 90
	12342	Union Iron Works, Steel	3 35
	12343	H. C. Dunn, Brick	3 50
	12344	John Porsch, Pipe	3 50
	12345	Ashby Printing Co., Stationery	3 55
	12346	F. A. Douglass, Electrical Work at Pumping Station	3 55
	12347	C. Kessler, Brooms, Soda and Candles	3 95
	12348	Fred J. Miller, Repairs to Connection	4 50
	12349	Wm. Schade, Blacksmithing	5 71
	12350	Jarecki Mfg. Co., Pipe, Dies, Tees, etc.	8 93
	12351	E. J. Klang, Horse Shoeing	9 02
	12352	R. T. Williams & Co., Pipe for Boiler Repairs	9 30
	12353	E. J. Riblet, Rent of Shop	20 00
	12354	Kinter Jones Grain Co., Oats	22 00
	12355	South Erie Iron Works, Meter Top	22 20

February—Continued.

TO PAY VOUCHER.

Date.	No.	Of For	Amount.
	12356	A. S. Pinney, Hardware	27 57
	12357	The Dispatch Printing & Engraving Co., Books and Binding, Inspection Books	35 00
	12358	Keystone Brass Co., Material and Labor	41 59
	12359	Erie Mfg. & Supply Co., Iron Cocks, Belt Dressing, etc.	43 20
	12360	Erie Forge Co., Steel Shaft	55 35
	12361	Erie City Iron Works, Liners for Boilers	60 00
	12362	U. S. Cast Iron, Pipe & Foundry Co., Pipe and Specials	63 27
	12363	Union Water Meter Co., Repairing Meter	65 50
	12364	H. R. Worthington, Air Cylinder	88 92
	12365	Hays Mfg. Co., Pipe and Fittings	113 79
	12366	Mehl & Sapper, Hardware	121 56
	12367	Union Oil Works, Oil	150 98
	12368	The W. L. Scott Co., Coal	605 76
	12369	Pay Roll—street work, Disbursed by W. C. Siegel, Clerk	278 67
	12370	John Kolb, Ass't Sec'y, Sundries	7 30
	12371	New York & Penn'a Tel. & Tel. Co., Rent of Telephone	4 04
	12372	National Meter Co., Repairing Meter	6 75
21	12373	Pay Roll—street work. Disbursed by W. C. Siegel Clerk	216 70
	12374	John M. Lynch, Boiler Inspection	12 00
28	12375	Mrs. Gertrude Beckman, Rent of Office, acc't Intake No. 2 Ext.	12 00
	12376	John Kolb, Ass't Sec'y, Sundries	14 49
	12377	Clark Olds, Services as Commissioner, 2 months	150 00
	12378	G. F. Brevillier, Services as Commissioner, 2 months	150 00
	12379	Willis B. Durlin, Services as Commissioner, 2 months	150 00
	12380	Pay Roll—street work, Disbursed by W. C. Siegel, Clerk	181 22
	12381	Pay Roll—Pumping Station, Disbursed by John Kolb, Ass't Sec'y	1,025 00
	12382	Pay Roll—Office and Inspectors, Disbusred by John Kolb, Ass't Sec'y	1,058 34
		Total	$ 5,212 51

March.

TO PAY VOUCHER.

Date.	No.	Of For	Amount.
7	12383	John Kolb, Ass't Sec'y, Sundries	12 63
	12384	American Oil Works, Boiler Compound	34 13
	12385	Pay Roll—street work Disbursed by W. C. Siegel, Clerk	212 80
14	12386	J. G. Schlendwein Saddlery Co., Repairing Harnesses, etc	1 20
	12387	Jarecki Mfg. Co., Brass Plugs and Galv. Nipples	1 44
	12388	Antonia Angelotti, Repairing Connection	1 80
	12389	South Erie Iron Works, Repairing Stove at Shop	1 80
	12390	O. C. Thayer & Son, Cement	1 80
	12391	John J. O'Brien, Maps of Peninsula	1 90
	12392	Wm. F. Nick & Son, Lead, Turpentine, etc.	2 00
	12393	The Plumbers' Trade Journal, Annual Subscription	2 00
	12394	Geo. L. Siegel, Straw and Shavings	2 11
	12395	Keystone Brass Co, Brass Tubes and Grease Cups	2 39
	12396	H. R. Worthington, Steel Tubing	3 37
	12397	Erie Machine Shop, Nuts, Bolts and Steel	3 43
	12398	V. B. St. John, Lettering Tool Boxes	3 50
	12399	Ashby Printing Co., Books, Maps and Brushes	4 48
	12400	H. H. Merwin, Cut of Peninsula	4 50
	12401	C. Kessler, Soap, Starch, Candles and Canvas	4 76
	12402	F. J. Bassett, Photograph of Peninsula	5 00
	12403	Wm. J. Sell, Scientific Book	5 00
	12404	Thomson Meter Co., Repairs to Meter	5 27
	12405	American Arithmometer Co., Paper	6 00
	12406	Erie Window Glass Co., Lead, Oil and Paint	6 06
	12407	E. J. Klang, Horse Shoeing	6 22
	12408	Eugene Dietzgen Co., Engineer's Supplies	6 55
	12409	Standard Brick Works, Brick	6 75
	12410	John H. Buys, Coal	7 00

March—Continued.

TO PAY VOUCHER.

Date.	No.	Of For	Amount.
	12411	Globe Iron Foundry Co., Plugs and Material	8 52
	12412	Curtis Johnson & Son, Lumber	11 27
	12413	R. T. Walker, Rent of Barn	12 00
	12414	Lyman Felheim, Lumber	15 00
	12415	Union Iron Works, Material and Labor	15 06
	12416	Pittsburg Meter Co., Meters	16 80
	12417	U. S. Cast Iron Pipe & Foundry Co., Pipe	18 64
	12418	E. J. Riblet, Rent of Shop	20 00
	12419	Franklin Coal Co., Coal	22 00
	12420	The Electric Equipment Co., Repairs to Electric Light Plant	22 27
	12421	Held, Gorenflo & Co., Advertising	23 50
	12422	Erie Post, Advertising	25 50
	12423	Times Publishing Co., Advertising	25 50
	12424	The Constable Bros. Co., Material and Labor	26 72
	12425	Holland's Mfg. Co., Base Planer Chuck	42 86
	12426	Mutual Telephone Co., Rent of Telephones	48 00
	12427	A. S. Pinney, Hardware	50 75
	12428	Erie Mfg. & Supply Co., Gaskets and Packings	80 08
	12429	Mehl & Sapper, Hardware and Packing	92 16
	12430	Erie Engine Works, Material and Labor	94 83
	12431	Hays Mfg. Co., Pipe and Fittings	115 64
	12432	Erie Oil Co., Oil	157 33
	12433	The W. L. Scott Co., Coal	586 64
	12434	F. P. Church, Acc't Ass't Sec'y, Sundries	8 36
	12435	Pay Roll—street work, Disbursed by W. C. Siegel, Clerk	250 07
	12436	Thos. A. Walton, On Contract, Boat Landing	90 00
21	12437	Dispatch News Co., Subscription from Jan. 9 to Dec. 31, 1903	5 84
	12438	F. P. Church, Act. Ass't Sec'y, Sundries	81 97

March—Continued.

TO PAY VOUCHER.

Date.	No.	Of For	Amount.
	12439	Pay Roll—street work, Disbursed by W. C. Siegel, Clerk	284 34
	12440	The Himrod Engraving Co., Office Supplies	39 90
28	12441	F. P. Church, Act. Ass't Sec'y, Sundries	6 36
	12442	John M. Lynch, Boiler Inspection	12 00
	12443	Pay Roll—street work, Disbursed by W. C. Siegel, Clerk	368 72
	12444	American Tool Works Co., Planer	652 00
	12445	W. A. Tompkins, On Contract, Boat	50 00
		Total	$ 3,736 52

April.

TO PAY VOUCHER.

Date.	No.	Of For	Amount.
1	12446	Mrs. Gertrude Beckman, Rent of Office, acc't Intake No. 2 Ext	12 00
	12447	Pay Roll—Pumping Station, Disbursed by F. P. Church, Act. Ass't Sec'y	1,025 00
	12448	Pay Roll—Office and Inspectors, Disbursed by F. P. Church, Act. Ass't Sce'y	1,058 33
4	12449	A. G. Smith & Co., Cleaning Typewriter	6 25
	12450	F. P. Church, Act. Ass't Sec'y, Sundries	10 78
	12451	Pay Roll—street work, Disbursed by W. C. Siegel, Clerk	401 46
9	12452	Thos. A. Walton, Balance Contract for Boat Landing	400 00
11	12453	Erie Company, Coke	1 08
	12454	A. E. Tonson, Sponges	1 25
	12455	John Flanagan, Repairs to Connection	1 20
	12456	John J. O'Brien, Maps of Harbor and Peninsula	1 40
	12457	John H. Walker, Stationery	1 50
	12458	American Tool Works Co., Parts for Planer	2 00
	12459	Dispatch News Co., Advertising	2 30
	12460	Held, Gorenflo & Co., Advertising	2 50
	12461	H. C. Gross, Wood,	2 50

April—Continued.

TO PAY VOUCHER.

Date.	No,	Of For	Amount.
	12462	Times Publishing Co., Advertising	2 60
	12463	C. Kessler, Soap, Broom, Matches and Candles	2 85
	12464	John Reinhold, Jr., Lead, Turpentine and Brushes	3 25
	12465	Erie Window Glass Co., Glass	3 60
	12466	Curtis Johnson & Son, Meter Box	3 75
	12467	Herald Printing & Publishing Co., Advertising	3 88
	12468	New York & Penn'a Tele & Tel. Co., Rent of Telephones	4 04
	12469	Thomson Meter Co., Repairs to Meters	4 07
	12470	C. L. Berger & Sons, Engineer's Instruments	4 17
	12471	Geo. L. Siegel, Hay and Shavings	4 56
	12472	Globe Iron Foundry Co., Valve Boxes	4 81
	12473	Armstrong Bros. Tool Co., Planer Tools	5 25
	12474	Chas. Gunnison & Co., Leather	5 26
	12475	E. J. Klang, Horse Shoeing	5 70
	12476	G. J. Gebhardt, Coal	6 00
	12477	Warner Bros., Linoleum for Electric Light House	6 05
	12478	W. D. Sweigard, Copper and Labor	6 50
	12479	Franklin Coal Co., Coal	6 75
	12480	F. P. Church, Act. Ass't Sec'y, Sundries	7 28
	12481	Jarecki Mfg Co., Pipe, Nipples, etc.	7 78
	12482	Washburn & Hotchkiss, Meter Boxes	8 50
	12483	Standard Brick Works, Brick	10 50
	12484	Kinter Jones Grain Co., Oats	13 50
	12485	Hays Mfg Co., Pipe and Fittings	13 86
	12486	Keystone Carriage Co., Painting and Varnishing	13 95
	12487	Erie Car Works, Iron Beam	14 58
	12488	Louis Sedelmeyer, Agent, Repairing Office Chairs	15 00
	12489	Erie Mfg. & Supply Co., Lubricators, Belt, Steel, etc.	17 87

April—Continued.

TO PAY VOUCHER.

Date.	No.	Of For	Amount.
	12490	Wm. Shade, Blacksmithing	18 18
	12491	Lyman Felheim, Meter Box and Lumber	19 70
	12492	E. J. Riblet, Rent of Shop	20 00
	12493	Union Water Meter Co., Meter	28 75
	12494	Pittsburg Water Meter Co., Meter Repairs	30 00
	12495	Johannessen Mfg. Co., Book Case and Repairs to Files	30 10
	12496	A. S. Pinney, Hardware	30 48
	12497	American Oil Works, Boiler Compound	33 33
	12498	Adolphus A. Knudson, Voltmeter	35 00
	12499	The Electric Equipment Co., Repairs to Electric Light Plant	38 07
	12500	Union Iron Works, Labor and Material on Boilers	63 70
	12501	Union Oil Works, Oil	97 83
	12502	Mehl & Sapper Hardware	101 75
	12503	The Keystone Electric Co., Motor for Planer	158 90
	12504	The W. L. Scott Co., Coal	965 36
	12505	W. A. Tompkins, On Contract for Boat	50 00
	12506	Pay Roll—street work, Disbursed by W. C. Siegel, Clerk	374 82
15	12507	Second Nat. Bank use Michigan Steel Boat Co., Boat	55 00
18	12508	F. P. Church, Act. Ass't Sec'y, Sundries	66 21
	12509	Pay Roll—street work, Disbursed by W. C. Siegel, Clerk	316 74
23	12510	W. A. Tompkins, On Contract for Boat	100 00
	12511	Lake Shore & Michigan Southern R. R., Freight on Pipe	29 25
25	12512	F. P. Church, Act. Ass't Sec'y. Sundries	26 33
	12513	Pay Roll—street work, Disbursed by W. C. Siegel, Clerk	278 32
		Total	$ 6,103 28

May.

TO PAY VOUCHER.

Date.	No.	Of For	Amount.
1	12514	Mrs. Gertrude Beckman, Rent of Office, acc't Intake No. 2. Ext.....	12 00
	12515	Clark Olds, Services as Commissioner, 2 months	150 00
	12516	G. F. Brevillier, Services as Commissioner, 2 months	150 00
	12517	Willis B. Durlin, Services as Commissioner, 2 months	150 00
	12518	Pay Roll—Pumping Station, Disbursed by F. P. Church, Act. Ass't Sec'y...	1,025 00
	12519	Pay Roll—Office and Inspector, Disbursed by F. P. Church, Act. Ass't Sec'y...	1,058 33
2	12520	F. P. Church, Act. Ass't Sec'y, Sundries	9 51
	12521	Pay Roll—street work, Disbursed by W. C. Siegel, Clerk	305 23
9	12522	Erie Company, Coke	1 58
	12523	Erie Mfg. & Supply Co., Tools	1 69
	12524	W. J. Christman, Horse Shoeing	3 20
	12525	C. Kessler, Soap, Broom, Candles	3 80
	12526	Keystone Brass Co., Brass Castings	3 98
	12527	Jarecki Mfg. Co., Tools	4 00
	12528	Fred Nick, Paint	4 21
	12529	Erie Window Glass Co., Glass	4 70
	12530	J. G. Schlindwein Saddlery Co., Harness Repairs	4 80
	12531	G. J. Gebhardt, Coal	6 00
	12532	Geo. L. Siegel, Hay and Shavings	6 21
	12533	H. Beckman & Sons, Oars, Cleats, etc.	7 74
	12534	W. E. Louch, Hose	7 50
	12535	O. C. Thayer & Son, Cement.....	10 11
	12536	The Constable Bros. Co., Lumber	11 01
	12537	Kinter Jones Grain Co., Oats	11 25
	12538	Union Iron Works, Castings	12 45
	12539	U. D. Sweigard, Drip Pans and Roof Repairs	13 20
	12540	A. S. Pinney, Hardware	15 85
	12541	The Fairbanks Co., Check Valve	19 15

May—Continued.

TO PAY VOUCHER.

Date.	No.	Of For	Amount.
	12542	Erie Engine Works, Castings and Tools	19 85
	12543	Pawley & Harnisckleger, Tools	20 00
	12544	E. J. Riblet, Rent of Shop	20 00
	12545	W. H. Gingrich, Oats	21 50
	12546	South Erie Iron Works, Meter Boxes	22 30
	12547	H. C. Dunn, Brick	23 10
	12548	John Reinhold, Jr., Lead, Oil, Paint and Polish	25 53
	12549	The Electric Equipment Co., Electric Light Supplies	33 70
	12550	James L. Firman, Teaming	35 68
	12551	Mutual Telephone Co., Rent of Telephones	48 00
	12552	Mehl & Sapper, Hardware	110 76
	12553	Erie Oil Co., Oil	112 98
	12554	Hays Mfg. Co., Curb Boxes and Fittings	210 05
	12555	Ashby Printing Co., Bills, Books, etc.	279 40
	12556	The W. L. Scott Co., Coal	876 40
	12557	U. S. Cast Iron Pipe & Foundry Co., Pipe	883 72
	12558	F. P. Church, Act. Ass't Sec'y, Sundries	21 78
	12559	Pay Roll—street work, Disbursed by W. C. Siegel, Clerk	333 02
	12560	W. A. Tompkins, On Contract for Boat	50 00
16	12561	F. P. Church, Act. Ass't Sec'y, Sundries	18 80
	12562	Pay Roll—street work, Disbursed by W. C. Siegel, Clerk	345 19
23	12563	F. P. Church, Act. Ass't Sec'y, Sundries	12 05
	12564	D. P. Murphy, Brick Work	34 20
	12565	W. P. Mason, Analysis of Water	40 00
	12566	W. A. Tompkins, On Contract for Boat	100 00
	12567	Pay Roll—street work, Disbursed by W. C. Siegel, Clerk	390 59
		Total	$ 7,101 10

June.

TO PAY VOUCHER.

Date.	No.	Of For	Amount.
1	12568	Mrs. Gertrude Beckman, Rent of Office, acc't Intake No. 2 Ext	12 00
	12569	F. P. Church, Act. Ass't Sec'y, Sundries	17 04
	12570	Pennsylvania Railroad Co., Freight on Pipe	29 70
	12571	Pay Roll—street work, Disbursed by W. C. Siegel, Clerk	405 26
	12572	Pay Roll—Pumping Station, Disbursed by F. P. Church, Act. Ass't Sec'y	1,025 00
	12573	Pay Roll—Office and Inspectors, Disbursed by F. P. Church, Act. Ass't Sec'y	1,058 34
6	12574	Pay Roll—street work, Disbursed by W. C. Siegel, Clerk	426 80
13	12575	Erie Machine Shop, Valve	1 00
	12576	Ashby Printing Co., Stationery	1 95
	12577	The Erie Brewing Co., Barrel for Gasoline	2 00
	12578	Municipal Engineering Co., Annual Subscription	2 00
	12579	Alois Nagoski, Repairs to Connection	2 39
	12580	Herald, Printing & Publishing Co., Stationery	2 55
	12581	Erie Gas Co., Coke	2 60
	12582	John Reinhold, Jr., Paint and Turpentine	2 65
	12583	U. D. Sweigard, Drip Pans, Solder and Labor	2 70
	12584	Stearns Mrg. Co., Blue Print Paper	2 75
	12585	Dr. J. C. Elviage, Horse Medicine	3 00
	12586	Union Ice Co., Ice	3 88
	12587	Erie Post. Advertising	4 60
	12588	The Keystone Electric Co., Repairs to Coal Elevator	4 88
	12589	Lyman Felheim, Meter Box	5 00
	12590	H. C. Gross, Wood	5 00
	12591	Trader's Oil Co., Meter Box	5 00
	12592	Keystone Brass Co., Material and Labor	5 22
	12593	C. Kessler, Brooms, Matches, Rope	5 45
	12594	Samuel Hanna, Horse Shoeing	6 00
	12595	Murphy Bros., Repairing Oil Can, Pump and Pan	6 70

June—Continued.

TO PAY VOUCHER.

Date.	No.	Of	For	Amount.
	12596	Times Publishing Co.,	Advertising	7 50
	12597	Plain Dealer Publishing Co.,	Advertising	9 00
	12598	Wm. Stanton,	Repairing Swimming Pool	9 75
	12599	Erie City Iron Works,	Paper and Boiler Front	11 50
	12600	Holland Mfg. Co.,	Tools	13 37
	12601	Erie Oil Co.,	Oil	13 50
	12602	The Hennesy Mfg. Co.,	Washers	14 00
	12603	Erie Forge Co.,	Steel Pins	14 04
	12604	James L. Firman,	Teaming	14 28
	12605	E. J. Riblet,	Rent of Shop	20 00
	12606	W. H. Gingrich,	Oats	21 50
	12607	Edwin Harrington Son Co.,	Tools	24 75
	12608	Eugene Dietzgen Co.,	Engineer's Supplies	25 28
	12609	A. S. Pinney,	Hardware	26 43
	12610	R. D. Wood & Co.,	Valves	28 08
	12611	The Evening News Association,	Advertising	30 24
	12612	Inter Ocean Newspaper Co.,	Advertising	34 20
	12613	Erie Mfg. & Supply Co.,	Gaskets, Valves, etc	53 81
	12614	Edison Construction & Supply Co.,	Arc Lamps, etc	64 56
	12615	P. Harlan,	Chairs for Boat	3 00
	12616	Mehl & Sapper,	Hardware	95 69
	12617	W. A. Tompkins,	Balance on Contract for Boat	124 00
	12618	Globe Iron Foundry Co.,	Valves, Boxes, etc	138 60
	12619	Union Oil Works,	Oil	160 88
	12620	Hays Mfg. Co.,	Pipe, Fittings, etc	195 35
	12621	The W. L. Scott Coal Co.,	Coal	225 84
	12622	Hersey Mfg. Co.,	Meter	350 00
	12623	Longmead Iron Co.,	Galvanized Pipe	834 39

June—Continued.

TO PAY VOUCHER.

Date.	No.	Of For	Amount.
	12624	F. P. Church, Act. Ass't Sec'y, Sundries	16 95
	12625	Pay Roll—street work. Disbursed by W. C. Siegel, Clerk	533 04
	12626	Wm. Schade, Blacksmithing	11 46
20	12627	John Kolb, Ass't Sec'y, Sundries	15 68
	12628	Bay State Machine Co., Amount of Contract for Engine	509 00
	12629	Pay Roll—street work, Disbused by W. C. Siegel, Clerk	478 91
27	12630	F. P. Church, Act. Ass't Sec'y. Sundries	12 51
	12631	Times Publishing Co., Annual Report for 1902	447 96
	12632	Pay Roll—street work. Disbursed by W. C. Siegel, Clerk	508 86
		Total	$ 8,149 37

July.

TO PAY VOUCHER.

Date.	No.	Of For	Amount.
1	12633	Mrs. Orilla Block, Washing Towels 6 months	6 00
	12634	Mrs. Gertrude Beckman, Rent of Office acc't Intake No. 2 Ext.	12 00
	12635	Clark Olds, Services as Commissioner, 2 months	150 00
	12636	G. F. Brevillier, Services as Commissioner, 2 months	150 00
	12637	Willis B. Durlin, Services as Commissioner, 2 months	150 00
	12638	Pay Roll—Office and Inspectors, Disbursed by F. P. Church, Act. Ass't Sec'y	1,058.33
	12639	Pay Roll—Pumping Station, Disbursed by F. P. Church, Act. Ass't Sec'y	1,062 50
3	12640	F. P. Church, Act. Ass't Sec'y, Sundries	68 31
	12641	Pay Roll—street work, Disbursed by W. C. Siegel, Clerk	547 89
11	12642	Edison Electric Light Power Co., Repairs to Electric Plant	1 00
	12643	J. G. Schlindwein Saddlery Co., Harness Dressing	1 00
	12644	Herald Printing & Publishing Co., Stationery	1 05
	12645	H. C. Muller Repairing Window Screens	1 52
	12646	Thomson Meter Co., Repairs to Meter	2 33

July—Continued.

TO PAY VOUCHER.

Date.	No.	Of	For	Amount.
	12647	Erie Steam Bending Works,	Lumber	2 50
	12648	Erie Engine Works,	Pattern Work and Casting	2 52
	12649	Murphy Bros.,	Material for Boat	2 95
	12650	H. C. Dunn,	Brick	3 50
	12651	C. Kessler,	Soap and Matches	3 65
	12652	Locke Regulator Co.	Valve	4 00
	12653	New York & Penn'a Tel. & Tel Co.,	Rent of Telephone	4 04
	12654	U. D. Sweigard,	Tools	498
	12655	H. C. Gross,	Wood	5 00
	12656	Palace Hardware House	Repairs to Lawn Mowers	5 65
	12657	Holland Mfg. Co.,	Ratchet Stock	5 85
	12658	O. C. Thayer & Son,	Cement	6 00
	12659	H. F. Watson Co.,	Rope, Brush, etc.	6 00
	12660	Erie Company,	Coke	7 88
	12661	August Jarecki,	Repairs to Clock	8 33
	12662	Wm. F. Nick & Son,	Lead, Zink, etc.	8 35
	12663	Union Ice Co.,	Ice	8 38
	12664	Standard Brick Works,	Brick	8 75
	12665	Erie Window Glass Co.,	Lead, Oil, Putty, Brushes, etc	8 98
	12666	Held, Gorenflo & Co.,	Advertising	9 00
	12667	Union Oil Works,	Oil	9 65
	12668	Jas. L. Firman,	Teaming	10 05
	12669	Samuel Hanna,	Horse Shoeing	10 60
	12670	Althof Bros.,	Oak Frames	16 00
	12671	Erie Mfg. & Supply Co.,	Gaskets, Valve, etc.	17 52
	12672	Lyman Felheim,	Lumber	18 17
	12673	Geo. L. Siegel,	Lawn Mowers	19 00
	12674	E. J. Riblet,	Shop Rent	20 00

July—Continued.

TO PAY VOUCHER.

Date.	No.	Of For	Amount.
	12675	L. S. & M. S. R. R. Co., Freight on Pipe	22 05
	12676	A. J. Louch, Repairing Sail for Boat and Awning	30 60
	12677	Mayer Bros., Repairing Cuts in Paved Street	36 78
	12678	Schluraff Floral Co., Plants for Pumping Station and Reservoir	40 00
	12679	The Engineering Record, Advertising	41 60
	12680	Engineering News Publishing Co., Advertising	42 00
	12681	The Electric Equipment Co., Repairs to Electric Plant	57 86
	12682	A. S. Pinney, Hardware	62 02
	12683	Mehl & Sapper, Hardware	78 00
	12684	Hays Mfg. Co., Pipe and Fittings	78 37
	12685	Ashby Printing Co., Printed Matter	84 75
	12686	Lake City Engineering Co., Meter Tops, Valve Boxes, etc	89 16
	12687	R. D. Wood & Co., Valve Stems	110 66
	12688	Globe Iron Foundry Co Sleeves, Boxes and Plugs	114 60
	12689	Erie Oil Co., Oil	150 48
	12690	Geo. P. Miller, Collector of Taxes, 4th ward, Taxes	231 25
	12691	F. E. Fitts Mfg. & Supply Co., Waste	233 46
	12692	The W. L. Scott Co., Coal	981 11
	12693	F. P. Church, Act. Ass't Sec'y, Sundries	15 44
	12694	Pay Roll—street work, Disbursed by W. C. Siegel, Clerk	463 61
18	12695	The Jeffrey Mfg. Co., Repairs to Coal Elevator	2 25
	12696	Library Bureau, Guide Cards	11 10
	12697	Buffalo Courier, Advertising	23 85
	12698	A. A. Knudson Electrical Investigation	37 35
	12699	F. P. Church, Act Ass't Sec'y, Sundries	39 29
	12700	Excelsior Boiler Compound Co., Boiler Compound	52 00
	12701	Pay Roll—street work, Disbursed by W. C. Siegel, Clerk	513 85
25	12702	Lake Shore & Michigan Southern R. R. Co., Freight on Pipe	21 60

July—Continued.

TO PAY VOUCHER.

Date.	No.	Of For	Amount.
	12703	F. P. Church, Act. Ass't Sec'y, Sundries	25 90
	12704	Pay Roll—street work, Disbursed by W. C. Siegel, Clerk	513 79
		Total	$ 7,654 01

August.

TO PAY VOUCHER.

Date.	No.	Of For	Amount.
1	12705	Mrs. Gertrude Beckman, Rent of Office, acc't Intake No. 2 Ext	12 00
	12706	D. P. Murphy, Work on Boilers	47 00
	12707	F. P. Church, Act. Ass't Sec'y, Sundries	115 40
	12708	Pay Roll—Street Work, Disbursed by W. C. Siegel, Clerk	543 25
	12709	Pay Roll—Pumping Station, Disbursed by F. P. Church, Act. Ass't Sec'y	1,040 00
	12710	Pay Roll—Office and Inspectors, Disbursed by F. P. Church, Act. Ass't Sec'y	1,058 33
8	12711	Erie County Electric Co., Charging Battery for Boat	1 00
	12712	J. G. Schlindwein Saddlery Co., Repairing Harness	1 15
	12713	Johannessen Mfg. Co., Repairing Office Chair	1 25
	12714	Hollands Mfg. Co., Tools	1 35
	12715	Geo. L. Siegel, Meal	1 80
	12716	John J. O'Brien, Printing	2 50
	12717	Erie Company, Coke	2 60
	12718	Erie City Directory, City Directory	3 00
	12719	Lake City Machine Co., Repairs to Tools	3 35
	12720	H. Himberger, Meter Box	3 50
	12721	W. E. Louch, Repairing Hose	3 50
	12722	Jarecki Mfg. Co., Material and Labor	3 56
	12723	P. J. Wissler, Repairing Cuts in Paved Streets	3 62
	12724	Erie Mfg. & Supply Co., Wire and Discs	3 93
	12725	Saltsman & Austin, Cement	4 00

August—Continued.

TO PAY VOUCHER.

Date.	No.	Of	For	Amount.
	12726	C. Kessler,	Brooms and Matches	4 05
	12727	John Reinhold, Jr.,	Varnish, Brushes, etc	4 10
	12728	Ashby Printing Co.,	Stationery and Printing	4 20
	12729	The Keystone Electric Co.,	Labor	4 50
	12730	Union Iron Works,	Labor on Boilers	4 85
	12731	Chas. Gunnison & Co.,	Leather	4 86
	12732	Erie Window Glass Co.,	Oil, Glass and Varnish	5 10
	12733	M. G. Mayo,	Fly Nets	6 50
	12734	H. C. Dunn,	Brick	7 00
	12735	Samuel Hanna,	Horse Shoeing	7 35
	12736	Skinner Engine Co.,	Material and Labor	7 50
	12737	The Gallagher Printing Co.,	Printing	7 75
	12738	Keystone Brass Co.,	Brass Castings and Labor	7 76
	12739	Herald Printing & Publishing Co.,	Advertising	8 80
	12740	Warfel & Arbuckle,	Cart	10 00
	12741	A. S. Pinney,	Hardware	11 35
	12742	Erie City Iron Works,	Boiler Repairs	16 00
	12743	Union Ice Co.,	Ice	16 25
	12744	E. J. Rilblet,	Rent of Shop	20 00
	12745	The Electric Equipment Co.,	Repairs to Electric Plant	20 90
	12746	W. H. Gingrich,	Oats	24 00
	12747	Union Water Meter Co.,	Repairs to Meter	24 50
	12748	Warner Bros.,	Matting and Linoleum	32 91
	12749	Wm. Schade,	Blacksmithing	33 05
	12750	F. P. Church, Act. Ass't Sec'y,	Sundries	41 40
	12751	Jas. L. Firman,	Teaming	56 90
	12752	O. C. Thayer & Son,	Cement, Fire Clay and Crushed Stone	60 10
	12753	Lake City Engineering Co.,	Castings	76 63

August—Continued.

TO PAY VOUCHER.

Date	No.	Of For	Amount
	12754	Mehl & Sapper, Hardware	130 75
	12755	Havs Mfg. Co., Pipe and Fittings	280 89
	12756	R. D. Wood & Co., Fire Hydrants and Repairs	330 60
	12757	Pittsburg Meter Co., Meters	433 60
	12758	U. S. Cast Iron Pipe & Foundry Co., Pipe	1,765 00
	12759	The W. L. Scott Co., Coal	1,909 55
	12760	Pay Roll—Street Work, Disbursed by W. C. Siegel, Clerk	493 20
15	12761	Dispatch-News Co., Advertising	9 00
	12762	The Toledo Newspaper Co., Advertising	12 00
	12763	F. P. Church, Act. Ass't Sec'y, Sundries	15 97
	12764	American Oil Works, Boiler Compound	33 39
	12765	Pay Roll—Street Work, Disbursed by W. C. Siegel, Clerk	547 79
22	12766	F. P. Church, Act. Ass't Sec'y, Sundries	14 76
	12767	Pay Roll—Street Work, Disbursed by W. C. Siegel, Clerk	565 89
29	12768	F. P. Church, Act. Ass't Sec'y, Sundries	3 29
	12769	Pay Roll—Street Work, Disbursed by W. C. Siegel, Clerk	537 97
		Total	$10,468 05

September.

TO PAY VOUCHER.

Date.	No.	Of For	Amount.
1	12770	Mrs. Gertude Beckman, Rent of Office, acc't Intake No. 2 Ext	12 00
	12771	Clark Olds, Services as Commissioner, 2 months	150 00
	12772	G. F. Brevillier, Services as Commissioner, 2 months	150 00
	12773	Willis B. Durlin, Services as Commissioner, 2 months	150 00
	12774	Pay Roll—Pumping Station, Disbursed by F. P. Church, Act. Ass't Sec'y	1,040 00
	12775	Pay Roll—Office and Inspectors, Disbursed by F. P. Church, Act. Ass't Sec'y	1,058 34
5	12776	John Kolb, Ass't, Sec'y, Sundries	5 24

September—Continued.

TO PAY VOUCHER.

Date.	No.	Of For	Amount.
	12777	Pay Roll—Street Work, Disbursed by W. C. Siegel, Clerk	534 44
12	12778	Dispatch-News Co., Advertising	1 00
	12779	Erie County Electric Co., Labor	1 00
	12780	Johannessen Mfg. Co., Repairs to Office Desk	1 00
	12781	Mayer Bros., Repairing Curb	1 00
	12782	Times Publishing Co., Advertising	1 10
	12783	Erie Machine Shop, Repairs to Engine No. 3	1 20
	12784	Harry Thompson, Cleaning Arithmometer	1 70
	12785	J. G. Schlindwein Saddlery Co., Repairing Harness	2 70
	12786	Geo. Carroll & Bro. Co., Lumber	3 00
	12787	Fire and Water Engineering, Annual Subscription	3 00
	12788	D. Schlosser & Sons, Oak Stakes	3 00
	12789	Jarecki Mfg. Co., Material and Labor	4 61
	12790	H. C. Gross, Wood	5 00
	12791	Dispatch Printing & Engraving Co., Stationery	5 00
	12792	Keystone Carriage Co., Brake for Wagon	6 00
	12793	Saltsman & Austin, Cement	6 34
	12794	Erie Company, Coke	7 20
	12795	Samuel Hanna, Horse Shoeing	8 00
	12796	Erie Engine Works, Repairs to Engine No. 3	8 10
	12797	Keystone Brass Co., Brass, Copper and Labor	8 25
	12798	Thomson Meter Co., Repairs to Meter	8 30
	12799	Lyman Felheim, Lumber and Meter Box	8 48
	12800	Lake City Engineering Co., Labor	8 50
	12801	H. R. Worthington, Pin for Engine No. 4	8 80
	12802	The Loetzer Valve & Mfg. Co., Air Valve	9 00
	12803	Geo. L. Siegel, Lawn Mower and Grass Seed	10 10
	12804	W. A. Tompkins, Work on Boat	10 10

September—Continued.

TO PAY VOUCHER.

Date-	No.	Of	For	Amount.
	12805	C. Kessler,	Brooms, Soap, Candles, etc.	10 35
	12806	Herald Printing & Publishing Co.,	Adevertising, Stationery, etc.	10 60
	12807	J. M. Lynch,	Boiler Inspection	12 00
	12808	Wm. Shade,	Blacksmithing	12 18
	12809	Pittsburg Meter Co.,	Meter	12 60
	12810	Murphy Bros.,	Fog Horn, Tools, etc.	14 35
	12811	John Reinhold, Jr.,	Paint and Polish	15 30
	12812	H. C. Dunn,	Brick	17 50
	12813	Union Ice Co.,	Ice	17 97
	12814	Erie City Rag Warehouse,	Rope	19 82
	12815	E. J. Riblet,	Shop Rent	20 00
	12816	South Erie Iron Works,	Meter Top	22 05
	12817	A. S. Pinney,	Hardware	20 06
	12818	Erie Mfg. & Supply Co.,	Packing	22 14
	12819	W. H. Gingrich,	Oats	23 00
	12820	Erie Electric Equipment Co.,	Repairs to Electric Plant	24 15
	12821	Lake City Engineering Co.,	Stop Boxes, Ring and Sleeves	25 96
	12822	Union Water Meter Co.,	Repairs to Meter	28 75
	12823	Excelsior Boiler Compound Co.,	Boiler Compound	30 87
	12824	The Constable Bros. Co.,	Material and Labor	32 55
	12825	Jas. L. Firman,	Teaming	38 02
	12826	The City of Erie,	Crushed Stone	46 72
	12827	Mutual Telephone Co.,	Rent of Telephones	48 00
	12828	Mehl & Sapper,	Hardware and Packing	55 96
	12829	W. E. Long, Collector of Taxes, 6th ward,	Taxes	62 25
	12830	H. Beckman & Sons,	Rope, etc.	79 94
	12831	Cleveland Trinidad Paving Co.,	Repairing Cuts in Paved Streets	108 79
	12832	Union Oil Works,	Oil	141 62

September—Continued.

TO PAY VOUCHER.

Date.	No,	Of For	Amount.
	12833	Erie Oil Co., Oil	151 83
	12834	Hays Mfg. Co., Pipe, Fittings, etc.	201 90
	12835	W. L. Scott Co., Coal	1,194 22
	12836	John Kolb, Ass't Sec'y, Sundries	4 96
	12837	Pay Roll—Street Work Disbursed by W. C. Siegel, Clerk	482 82
	12838	W. A. Tompkins, Labor	23 28
19	12839	Pay Roll—Street Work, Disbursed by W. C. Siegel, Clerk	506 60
	12840	John Kolb, Ass't Sec'y, Sundries	19 60
26	12841	W. A. Tompkins, Carpenter Work	85 37
	12842	Pay Roll—Street Work, Disbursed by W. C. Siegel, Clerk	511 06
		Total	$ 7,396 64

October.

TO PAY VOUCHER.

Date.	No.	Of Eor	Amount.
1	12843	Mrs. Gertrude Beckman, Rent of Office acc't Intake No. 2 Ext	12 00
	12844	Pay Roll—Pumping Station, Disbursed by John Kolb, Ass't Sec'y	1,040 00
	12845	Pay Roll—Office and Inspectors, Disbursed by John Kolb, Ass't Sec'y	1,058 33
3	12846	John Kolb, Ass't Sec'y, Sundries	7 55
	12847	Pay Roll—Street Work, Disbursed by W. C. Siegel, Clerk	481 71
	12848	Ashby Printing Co., Ink, Pens and Pencils	1 00
	12849	Emil Streuber, Leather	1 00
	12850	Jarecki Mfg. Co., Fittings	1 46
	12851	Holland Mfg. Co., Wrench	1 58
	12852	D. Schlosser & Sons, Lumber	1 68
	12853	Public Grocery Supply Co., Rolled Oats	1 75
	12854	Citizens' Ice Co., Ice	1 75
	12855	R. H. Beyer, Meter Repairs	2 00

October—Continued.

TO PAY VOUCHER.

Date.	NO.	Of For	Amount.
	12856	H. R. Worthington, Engine Repairs	2 50
	12857	O. H. Nick, Valve, Plug and Washer	2 85
	12858	Erie Mfg. & Supply Co., Tools	2 95
	12859	H. Thompson, Ribbon and Cleaning Arithmometer	3 00
	12860	Thompson Meter Co., Meter Repairs	3 75
	12861	New York & Penn. Tel. & Tel. Co., Rent of Telephone	4 04
	12862	Saltsman & Austin, Cement	4 36
	12863	Fred Nick, Paint and Brush	4 80
	12864	J. Jacobs, Oil Skins	5 00
	12865	H. C. Gross, Wood	5 00
	12866	Reed Mfg. Co., Pipe Wrench	6 00
	12867	Mehl & Sapper, Hardware	6 25
	12868	Wm. F. Nick & Son, Paint, Oil and Acid	6 75
	12869	National Meter Co., Meter Repairs	6 75
	12870	H. C. Dunn, Brick	7 00
	12871	C. Kessler, Soap, Brooms and Matches	7 55
	12872	Erie Oil Co., Grease	8 00
	12873	Samuel Hanna, Horse Shoeing	9 00
	12874	Curtis Johnson & Son, Lumber	9 22
	12875	F. Wm. Weber, Pictures	11 00
	12876	U. D. Sweigard, Copper and Labor	11 80
	12877	Erie Company, Coke	11 98
	12878	J. M. Lynch, Boiler Inspection	12 00
	12879	J. J. O'Brien, Printing	12 25
	12880	John Reinhold, Jr., Brush, Pant, etc.	12 25
	12881	Union Ice Co., Ice	14 33
	12882	Lake City Machine Shop, Tools	16 50
	12883	Erie Window Glass Co., Glass, etc.	17 60

October—Continued.

TO PAY VOUCHER.

Date.	No.	Of For	Amount.
	12884	Keystone Brass Co., Brass and Labor	19 90
	12885	E. J. Riblet, Shop Rent	20 00
	12886	A. S. Pinney, Hardware	20 14
	12887	Lyman Felheim, Lumber and Meter Box	20 37
	12888	South Erie Iron Works, Meter Tops	22 14
	12889	W. H. Gingrich, Oats	22 50
	12890	Union Meter Co., Meter Repairs	23 25
	12891	Builders Iron Foundry, Scales	28 50
	12892	Excelsior Boiler Compound Co., Boiler Compound	31 50
	12893	D. P. Murphy, Laying Brick	31 50
	12894	The Electric Equipment Co., Electric Light Supplies	38 45
	12895	Mutual Telephone Co., Rent of Telephones	48 00
	12896	James L. Firman, Teaming	78 81
	12897	Holly Mfg. Co., Valve Rubbers	83 75
	12898	W. A. Tompkins, Boat House	90 00
	12899	Lake City Engineering Co., Castings	91 36
	12900	Hays Mfg. Co., Pipe and Fittings	112 76
	12901	Union Oil Works, Oil	167 02
	12902	The W. L. Scott Co., Coal	996 03
	12903	U. S. Cast Iron Pipe & Foundry Co., Pipe	1,642 54
	12904	John Kolb, Ass't Sec'y, Sundries	16 08
	12905	Pay Roll—Street Work, Disbursed by W. C. Siegel, Clerk	542 89
17	12906	Electrical Appliance Co., Tools	2 58
	12907	D. P. Murphy, Laying Brick	4 50
	12908	Franklin Coal Co., Barn Rent, 6 months	30 00
	12909	Pay Roll—Street Work, Disbursed by W. C. Siegel, Clerk	527 30
24	12910	Wm. Crane, Batteries	3 00
	12911	John Kolb, Ass't Sec'y, Sundries	9 75

October—Continued.

TO PAY VOUCHER.

Date.	No.	Of For	Amount.
	12912	W. A. Tompkins, Carpenter Work	12 60
	12913	Pay Roll—Street Work, Disbursed by W. C. Siegel, Clerk	536 90
31	12914	Mrs. Gertrude Beckman, Rent of Office acc't Intake No. 2 Ext.	12 00
	12915	Clark Olds, Services as Commissioner, 2 months	150 00
	12916	G. F. Brevillier, Services as Commissioner, 2 months	150 00
	12917	Willis B. Durlin, Services as Commissioner, 2 months	150 00
	12918	Pay Roll—Street Work, Disbursed by W. C. Siegel, Clerk	573 68
	12919	Pay Roll—Pumping Station, Disbursed by John Kolb, Ass't Sec'y	1,040 00
	12920	Pay Roll—Office and Inspectors, Disbursed by John Kolb, Ass't Sec'y	1,053 33
		Total	$11,239 42

November.

TO PAY VOUCHER.

Date.	No.	Of For	Amount.
7	12921	John Kolb, Ass't Sec'y, Sundries	29 90
	12922	Tompkins & Baker, On Contract for Pier	75 00
	12923	Pay Roll—Street Work, Disbursed by W. C. Siegel, Clerk	509 30
14	12924	Erie County Electric Co., Charging Battery	1 00
	12925	The Sunday Messenger Publishing Co., Advertising	1 00
	12926	Held, Gorenflo & Co., Advertising	1 20
	12927	August Jarecki, Repairing Clock	1 20
	12928	Dispatch-News Co., Advertising	1 30
	12929	Times Publishing Co., Advertising	1 30
	12930	W. E. Hayes & Co., Chimneys and Wicks	1 35
	12931	Erie Post Publishing Co., Advertising	1 40
	12932	Murphy Bros., Oil Can and Drip Pans	1 45
	12933	R. J. Saltsman & Co., Curry Comb and Brush	1 65
	12934	J. G. Schlindwein Saddlery Co., Harness Repairs	2 40

November—Continued.

TO PAY VOUCHER.

Date.	No.	Of For	Amount.
	12935	H. Beckman & Sons, Lamp	2 55
	12936	Herald Printing & Publishing Co., Advertising and Stationery	4 00
	12937	Locke Regulator Co., Valve	4 00
	12938	Queen & Co., Thermometers	4 05
	12939	Erie Window Glass Co., Glass, Paint & Oil	4 39
	12940	H. C. Gross, Wood	5 00
	12941	F. Wm. Weber, Picture	5 00
	12942	Armstrong Bros. Tool Co., Tools	6 32
	12943	Saltsman & Austin, Lime and Cement	6 80
	12944	H. C. Dunn, Brick	7 00
	12945	Wm. F. Nick & Son, Lead, Zink and Turpentine	7 01
	12946	Samuel Hanna, Horse Shoeing	8 00
	12947	Erie Heating & Plumbing Co., Plumbing	9 33
	12948	Keystone Brass Co., Brass and Labor	9 99
	12949	Erie City Iron Works, Boiler Repairs	10 50
	12950	Thomson Meter Co., Meter Repairs	11 84
	12951	Momeyer & Graf, Coal	13 00
	12952	Robert J. Saltsman, Coal	13 00
	12953	Patterson & Sterling, Stack for Forge	14 30
	12954	Erie Company, Coke	14 85
	12955	O. C. Thayer & Son, Lime and Cement	15 30
	12956	John Reinhold, Jr., Sponges, Brushes and Polish	17 75
	12957	Jarecki Mfg. Co., Fittings	18 40
	12958	Himrod Engraving Co., Stationery	18 75
	12959	John J. O'Brien, Stationery	20 00
	12960	E. J. Riblet, Rent of Shop	20 00
	12961	Keystone Carriage Co., Wagon Repairs	22 25
	12962	Wm. Schade, Blacksmithing	23 06

November—Continued.

TO PAY VOUCHER.

Date.	No.	Of For	Amount.
	12963	Erie Mfg. & Supply Co., Tools	25 29
	12964	Mehl & Sapper, Hardware	25 31
	12965	Union Iron Works, Steel and Boiler Repairs	32 29
	12966	Excelsior Boiler Compound Co., Boiler Compound	33 67
	12967	A. S. Pinney, Hardware	34 40
	12968	Lake City Engineering Co., Castings	38 06
	12969	Dispatch Printing & Engraving Co., Stationery	38 50
	12970	W. A. Tompkins, Carpenter Work	38 70
	12971	Union Oil Works, Oil	47 10
	12972	Tompkins & Baker, On Contract for Pier	50 00
	12973	Hays Mfg. Co., Pipe and Fittings	54 88
	12974	Electric Equipment Co., Electric Light Supplies	59 79
	12975	Erie Engine Works, Tools	61 93
	12976	James L. Firman, Teaming	83 03
	12977	Erie Oil Co., Oil	121 02
	12978	R. D. Wood & Co., Fire Hydrants and Valves	417 00
	12979	The W. L. Scott Co., Coal	871 36
	12980	U. S. Cast Iron Pipe & Foundry Co., Pipe	1,959 22
	12981	Pay Roll—Street Work, Disbursed by W. C. Siegel, Clerk	723 80
21	12982	John Kolb, Ass't Sec'y, Sundries	6 31
	12983	Pay Roll—Street Work, Disbursed by W. C. Siegel, Clerk	690 89
28	12984	Joh Kolb, Asss't Sec'y, Sundries	6 00
	12985	Tompkins & Baker, On Contract for Pier	100 00
	12986	Pay Roll—Street Work, Disbursed by W. C. Siegel, Clerk	496 76
		Total	$ 6,961 20

December.

TO PAY VOUCHER.

Date.	No.	Of For	Amount.
1	12987	Pay Roll—Office and Inspectors, Disbursed by John Kolb, Ass't Sec'y	1,053 34
	12988	Pay Roll—Pumping Station, Disbursed by John Kolb, Ass't Sec'y	1,131 75
5	12989	E. E. Proud, Plastering	3 00
	12990	John Kolb, Ass't Sec'y, Sundries	17 96
	12991	Joseph Frank, Plans and Specifications for Boat House	45 00
	12992	Tompkins & Baker, On Contract for Pier	100 00
	12993	Tompkins & Baker, On Contract for Pier	500 00
	12994	Pay Roll—Street Work Disbursed by W. C. Siegel, Clerk	711 35
12	12995	The Sunday Messenger Publishing Co., Advertising	1 00
	12996	Erie Post Publishing Co., Advertising	1 00
	12997	Dispatch-News Co., Advertising	1 10
	12998	J. Kretz, Lamp Repairs	1 15
	12999	H. F. Watson Co., Paper	1 30
	13000	J. G. Schlindwein Saddlery Co., Harness Repairs	1 35
	13001	J. H. Braggins, Pump	1 50
	13002	Gus. J. Miller, Horse Medicine	1 50
	13003	Geo. L. Siegel, Salt and Meal	2 10
	13004	Erie Machine Shops Tools	2 62
	13005	Hollands Mfg. Co. Tools	2 78
	13006	U. D. Sweigard, Lantern Repairs	3 00
	13007	Ashby Printing Co. Stationery	4 50
	13008	John J. O'Brien, Stationery	4 50
	13009	Harry Thompson, Dynamite	4 50
	13010	Union Iron Works, Boiler Repairs	4 60
	13011	Robt. J. Saltsman, Coal	4 75
	13012	H. C. Gross, Wood	5 00
	13013	Brown Folding Machine Co., Tools	6 25
	13014	Jarecki Mfg. Co., Fittings	6 49

December—Continued.

TO PAY VOUCHER.

Date.	No.	Of For	Amount.
	13043	Wm. Roy, Laying Brick	23 75
	13044	Erie Engine Works, Tools	24 57
	13045	Erie Mfg. & Supply Co., Tools	39 00
	13046	The Electric Equipment Co., Electric Light Supplies	42 77
	13047	Mehl & Sapper, Hardware	51 15
	13048	Warner Bros., Linoleum and Felt	52 93
	13049	James L. Firman, Teaming	57 18
	13050	Lake City Engineering Co., Castings	81 76
	13051	Isador Sobel, Postage Stamps	110 00
	13052	Union Oil Works, Oil	137 09
	13053	R. D. Wood & Co., Valves	138 00
	13054	Tompkins & Baker, On Contract for Pier	200 00
	13055	U. S. Cast Iron Pipe & Foundry Co., Pipes	759 00
	13056	W. L. Scott Co., Coal	1,286 04
	13057	John Kolb, Ass't Sec'y, Sundries	10 85
	13058	Pay Roll—Street Work, Disbursed by W. C. Siegel, Clerk	741 99
19	13059	Mrs. Orilla Block, Washing Towel, 6 months	6 00
	13060	John Kolb, Ass't Sec'y, Sundries	26 44
	13061	J. Jacobs, Gasking Rope	33 18
	13062	Clark Olds, Services as Commissioner, 2 months	150 00
	13063	G. F. Brevillier, Services as Commissioner, 2 months	150 00
	13064	Willis B. Durlin, Services as Commissioner, 2 months	150 00
	13065	Pay Roll—Street Work, Disbursed by W. C. Siegel, Clerk	278 26
	13066	Pay Roll—Office and Inspectors, Disbursed by John Kolb, Ass't Sec'y	1,053 33
	13067	Pay Roll—Engineers & Firemen, Disbursed by John Kolb, Ass't Sec'y	1,133 60
	13068	Tompkins & Baker, On Contract for Pier	75 00
26	13069	Pay Roll—Street Work, Disbursed by W. C. Siegel, Clerk	207 33
	13070	Erie Engine Works, Tools	2 73

December—Continued.

TO PAY VOUCHER.

Date.	No.	Of	For	Amount.
	13015	Union Ice Co.,	Ice	6 90
	13016	Erie Oil Co.,	Oil	7 00
	13017	The Bristol Co.,	Charts	7 50
	13018	Leonard Schneider,	Hardware and Tools	7 60
	13019	C. Kessler,	Soap, Brooms, etc.	7 73
	13020	Downing & Flickinger,	Insurance	7 81
	13021	T. M. Hemphill,	Insurance	7 81
	13022	Walter Scott & Co.,	Insurance	7 81
	13023	L. J. Van Andan & Co.,	Insurance	7 81
	13024	Samuel Hanna,	Horse Shoeing	8 00
	13025	Mayer Bros.,	Repairing Pavement	8 08
	13026	Dickson Gun Store,	Dynamite	8 28
	13027	Warfel & Arbuckle,	Horse Blankets	9 00
	13028	Erie Window Glass Co.,	Glass, Paint, Oil, etc.	9 70
	13029	H. C. Dunn,	Brick	10 50
	13030	Keystone Brass Co.,	Brass and Labor	10 69
	13031	Union Water Meter Co.,	Meter Repairs	14 40
	13032	Johannessen Mfg. Co.,	Desk Tops	15 00
	13033	Saltsman & Austin,	Lime	16 20
	13034	Hays Mfg. Co.,	Fittings	16 78
	13035	Standard Brick Works,	Brick	16 80
	13036	A. S. Pinney,	Hardware	17 23
	13027	Erie Company,	Coke	17 93
	13038	John Reinhold, Jr.,	Paint and Metal Polish	21 20
	13039	E. J. Riblet,	Shop Rent and Cot	22 00
	13040	South Erie Iron Works,	Meter Box Tops	22 20
	13041	W. H. Gingrich,	Oats	22 50
	13042	Lyman Felheim,	Lumber	23 73

December—Continued.

TO PAY VOUCHER.

Date.	No.	Of	For	Amount.
	13071	H. C. Gross,	Wood	5 00
	13072	D. Schlosser & Sons,	Tools	5 04
	13073	The Constable Bros. Co.,	Tools and Lumber	5 25
	13074	Erie Company,	Coke	8 40
	13075	Lyman Felheim,	Lumber	8 75
	13076	The Electric Equipment Co.,	Electric Light Supplies	8 98
	13077	A. S. Pinney,	Hardware	9 44
	13078	Ashby Printing Co.,	Printing	11 25
	13079	Mrs. Gertrude Beckman,	Rent of Office acc't Intake No. 2 Ext.	12 00
	13080	John Reinhold, Jr.,	Paints, Oils, Varnish, etc.	12 35
	13081	Robert J. Saltsman,	Coal	14 06
	13082	Franklin Coal Co.,	Rent of Barn	15 00
	13083	Keuffel & Esser Co.,	Tools	19 88
	13084	E. J. Riblet,	Rent of Shop	20 00
	13085	W. H. Gingrich,	Oats	21 50
	13086	Hays Mfg. Co.,	Fittings, etc.	21 67
	13087	Lake City Engineering Co.,	Castings	43 75
	13088	Mehl & Sapper,	Hardware	55 65
	13089	Erie Oil Co.,	Oil	70 70
	13090	Tompkins & Baker,	On Contract for Pier	500 00
	13091	The W. L. Scott Co.,	Coal	647 44
	13092	U. S. Cast Iron Pipe & Foundry Co.,	Pipe	744 78
	13093	John Kolb, Ass't Sec'y,	Sundries	34 62
	13094	G. J. Paapesch,	Motor Repairs	4 85
	13095	S. A. Davenport,	Counsel Fees	300 00
			Total	$13,603 89

RECAPITULATION, 1903.

Number Vouchers Issued.	MONTH.	AMOUNTS.
50	January	$ 4,613 97
55	February	5,212 51
63	March	3,736 52
68	April	6,103 28
54	May	7,101 10
65	June	8,149 37
72	July	7,654 01
65	August	10,468 05
73	September	7,396 64
78	October	11,239 42
66	November	6,961 20
109	December	13,603 89
818	Total	$92,239 96

Swimming Pool at Pumping Station.

DISBURSEMENTS.

DEPARTMENTS.	ACCOUNT.		For the Year 1903.	From Beginning of Work to Dec. 31, 1903.
Construction.	Advertising, Books, Printing and Stationery	a	$	$ 710 76
	Boiler, No. 1	g		2,335 23
	Boiler, No. 2	g		2,335 38
	Boiler, No. 3	g		2,335 28
	Boiler, No. 4	g		2,335 41
	Boiler, No. 5	g		2,312 83
	Boiler, No. 6	g		2,312 95
	Boiler, No. 7	g		2,313 26
	Boiler, No. 8	g		2,324 23
	Boiler House	g		16,912 67
	Buildings and Grounds		1,295 15	99,681 82
	Civil Engineering			8,554 80
	Connections		4,380 54	143,405 00
	Drinking Fountains	d	50 05	2,344 87
	Electric Light Plant	a		5,613 64
	Engines and Boilers to Dec. 31, 1903			96,715 79
	Engine, No. 4	b		48,441 43
	Engine, No. 5	k		33,568 49
	Engine House, No. 3	b		21,413 19
	Engine Room, Furniture and Fixtures			1,910 26
	Expense	a	23 17	449 18
	Fire Hydrants		1,054 69	34,474 20
	Fuel	a	73 87	407 76
	Gas Well			8,148 59
	High Service System	h	12 83	49,442 88
	H. S. S. Standpipe, No. 2, Iron Work	i		47 02
	H. S. S. Standpipe, No. 2, Stone Work	i		40 22
	Horse, Wagon and Cartage		380 52	6,540 64

Construction.	Intake Pipe, No. 1			49,474 89
	Intake Pipe, No. 2	*b*		140,971 08
	Intake Pipe, No. 2, Extension	*l*	8,427 40	11,736 50
	Interest and Discount			99,420 95
	Light, Oil, Lamps, Wicks, etc	*a*	16 43	412 77
	Lowering Mains		1,235 69	6,905 43
	Mains		14,677 16	691,483 48
	Mains, 30 inch			75,956 60
	Meters		1,110 45	26,793 10
	Meter Boxes	*m*	439 86	439 86
	Office Furniture and Fixtures	*a*	25 97	2,801 98
	Oil and Tallow	*b*		52 25
	Park Fountains			3,244 68
	Railroad Switch and Scales			2,918 92
	Reservoir			123,150 83
	Shop Rent	*a*	135 24	1,524 46
	Steel Plate Chimney, No. 1	*g*		4,177 53
	Stop Valves		878 08	48,053 18
	Superintendent's Stores			217 05
	Telephone and Telegraph	*a*		29 00
	Tools		840 16	10,415 74
	Tools, Coal Elevator and Conveyor	*j*		1,922 09
	Tools, Meter Prover	*k*		491 80
	Tools, Planer	*m*	987 46	987 46
	Waste and Packing	*j*		22 90
	Water Lots	*g*		15,987 29
Maintenance.	Advertising, Books, Printing and Stationery	*e*	26	522 23
	Boilers to March 5, 1898	*a*		24,501 08
	Boiler, No. 1	*h*	166 83	951 21
	Boiler, No. 2	*h*	167 56	973 67
	Boiler, No. 3	*h*	178 74	893 16
	Boiler, No. 4	*h*	174 13	907 45

a Accounts opened in 1891. *b* Accounts opened in 1892. *c* Accounts opened in 1893. *d* Accounts opened in 1894.
e Accounts opened in 1895. *g* Accounts opened in 1897. *h* Accounts opened in 1898. *i* Accounts opened in 1899.
j Accounts opened in 1900. *k* Accounts opened in 1901. *l* Accounts opened in 1902. *m* Accounts opened in 1903.

DISBURSEMENTS.—Continued.

DEPARTMENTS.	ACCOUNT.		For the Year 1903.	From Beginning of Works to Dec. 31, 1903.
Maintenance.	Boiler, No. 5	*h*	115 91	828 46
	Boiler, No. 6	*h*	97 23	790 81
	Boiler, No. 7	*h*	96 78	753 59
	Boiler, No. 8	*h*	96 82	786 92
	Boiler House	*h*	145 75	900 82
	Buildings and Grounds	*a*	2.809 43	24,386 16
	Connections		2,635 36	27,943 37
	Drinking Fountains	*d*	76 92	530 40
	Electric Light House	*c*	99 60	3,907 71
	Electric Light Plant	*b*	525 55	2,521 29
	Engines to Dec. 31, 1903			13,402 04
	Engine, No. 1	*c*	7 81	174 59
	Engine, No. 2	*c*	7 58	489 57
	Engine, No. 3	*c*	347 10	6,078 62
	Engine, No. 4	*d*	351 11	6.615 07
	Engine, No. 5	*i*	96 78	1,968 00
	Engine House, No. 1	*c*	131 72	2,142 10
	Engine House, No. 2	*c*	65 35	8,403 46
	Engine House, No. 3	*c*	206 79	2,420 77
	Engine Room, Furniture and Fixtures	*a*	4 21	614 66
	Expense	*a*	22 48	437 98
	Fire Hydrants	*a*	388 90	4,635 58
	Fuel	*a*	44 58	333 27
	High Service System	*i*		105 45
	Horse, Wagon and Cartage		381 18	6,791 51
	Intake Pipe, No. 1	*a*		165 26
	Intake Pipe, No. 2	*i*	5 48	38 51
	Lights, Oil, Lamps, Wicks, etc	*a*	16 61	289 42

Maintenance.	Mains		1,508 96	32,317 92
	Mains, 30 inch	*a*		910 49
	Meters		313 48	7,679 46
	Meter Boxes	*m*	81 53	81 53
	Office Furniture and Fixtures	*a*	69 55	1,099 64
	Oil and Tallow	*b*		37 35
	Railroad Switch and Scales	*a*		1,220 42
	Reservoir		51 15	37,110 08
	Shop Rent	*a*	135 14	1,524 12
	Standpipe	*c*	24 26	5,935 58
	Steel Plate Chimney, No. 1	*h*		328 65
	Stop Valves		493 01	7,631 35
	Superintendent's Stores	*j*		396 52
	Telephone and Telegraph			53
	Tools		1,361 46	13,726 57
	Tools, Coal Elevator Conveyor	*k*	61 53	80 89
	Waste and Packing	*b*		421 13
Operating.	Advertising, Books, Printing and Stationery	*a*	62	2,112 14
	Buildings and Grounds	*b*	1,651 94	15,201 96
	Boiler Inspection	*m*	49 90	49 90
	Drinking Fountains	*g*	125 71	803 65
	Electric Light House	*h*		353 84
	Electric Light Plant	*b*		119 48
	Engineers and Firemen		9,628 86	181,727 41
	Engineer's Stores			2,348 57
	Expense	*a*	187 40	1,526 30
	Fire Hydrants	*b*	514 54	3,302 24
	Flushing Sewers	*g*		51 40
	Fuel		12,195 52	211,306 17
	Horse, Wagon and Cartage	*d*		54 81
	Inspectors	*c*	2,564 74	27,079 50
	Insurance		32 48	1,785 35

a Accounts opened in 1891. *b* Accounts opened in 1892. *c* Accounts opened in 1893. *d* Accounts opened in 1894.
e Accounts opened in 1895. *g* Accounts opened in 1897. *h* Accounts opened in 1898. *i* Accounts opened in 1899.
j Accounts opened in 1900. *k* Accounts opened in 1901. *l* Accounts opened in 1902. *m* Accounts opened in 1903.

DISBURSEMENTS.—Continued.

DEPARTMENTS.	ACCOUNT.		For the Year 1903.	From Beginning of Works to Dec. 31, 1903.
Operating.	Light, Oil, Lamps, Wicks, etc.	*a*	93 50	754 62
	Machinists	*j*	2,120 82	6,484 43
	Meters	*b*	440 60	5,416 94
	Oil and Tallow		1,620 04	23,685 01
	Rent of Office	*b*		706 95
	Reservoir	*b*	499 02	5,768 97
	Stop Valves	*e*	16 71	594 91
	Taxes, U. S., State, County, School		305 13	3,906 26
	Telephone and Telegraph	*a*	216 40	2,436 30
	Tools	*a*		946 02
	Turning off and on Water	*g*	347 46	1,770 14
	Waste and Packing		1,042 76	11,830 30
	Water Rents Returned		10 86	1,175 65
Accounting.	Advertising, Books, Printing and Stationery		615 82	13,213 32
	Expense		24 75	14,993 48
	Light, Oil, Lamps and Wicks	*k*		1 56
	Postage		292 04	8,619 05
	Salaries		7,608 72	228,597 30
Sundries.	City of Erie, Board of Commissioners of Sinking Fund			170,500 00
	City of Erie		111 41	180 64
Legal.	Court Costs			490 42
	Counsel Fees		300 00	4,680 49
	Damages	*j*	12 75	408 38
	Expense			189 02
			$ 92,239 96	$ 3,129,848 35

a Accounts opened in 1891. *b* Accounts opened in 1892. *c* Accounts opened in 1893. *d* Accounts opened in 1894.
e Accounts opened in 1895. *g* Accounts opened in 1897. *h* Accounts opened in 1898. *i* Accounts opened in 1899.
j Accounts opened in 1900. *k* Acconnts opened in 1901. *l* Accounts opened in 1902. *m* Accounts opened in 1903.

RECAPITULATION.

DEPARTMENT.	FOR THE YEAR 1903.		From Beginning of Works to December 31, 1903.
	Pro Rata.	Total.	
Construction	.390772-|-	$ 36,044 84	$ 1,917,019 05
Maintenance	.147057-|-	13,564 62	257,706 42
Operating	.364972-|-	33,665 01	513,299 22
Accounting	.092599-|-	8,541 33	265,424 71
Sundries	.001207-|-	111 41	170,630 64
Legal	.003390-|-	312 75	5,768 31
Totals	.999997-|-	$ 92,239 96	$ 3,129,848 35

BALANCE SHEET.

1903 — 1903

ASSESSED ACCOUNTS.

Ward.	Balance from Dec. 31, 1902.	Assessm'nts.	Additions.	Penalties.	Balance to Jan. 1, 1904.	Totals.	Balance from Dec. 31, 1902.	Deductions.	Cash.	Balance to Jan. 1, 1904.
1	$ 39 38	$ 16,494 86	$ 599 06	$ 84 11	$ 11 55	$ 17,228 96	$ 21 74	$1,920 09	$ 15,260 91	$ 26 22
2	57 20	23,325 98	1,002 41	91 14	64 28	24,541 01	50 17	964 42	23,476 57	49 85
3	94 87	27,062 34	1,194 75	119 01	68 71	28,539 68	44 29	1,195 20	27,257 22	42 97
4	31 34	21,853 12	781 39	88 90	38 43	22,793 18	32 85	1,770 16	20,955 30	34 87
5	39 22	12,594 30	588 04	64 75	6 78	13,293 09	20 59	659 04	12,587 57	25 89
6	18 32	13,180 28	557 42	59 74	21 92	13,837 68	17 72	507 69	13,297 58	14 69
7	9 81	1,654 70	249 38	9 51	6 50	1,929 90	5 23	202 35	1,712 24	10 08
Total...	$ 290 14	$116,165 58	$ 4,972 45	$517 16	$218 17	$122,163 50	$ 192 59	$7,218 95	$114,547 39	$ 204 57

METER ACCOUNTS.

1	$ 768 26	$ 3,247 23	$.....	$ 10 72	.....	$ 4,026 21	$.....	$ 53 61	$ 3,103 58	$ 869 02
2	3,901 09	16,294 58	149 37	8 81	.....	20,353 85	82	22 34	16,373 13	3,957 56
3	1,855 20	7,930 31	23 77	21 25	.....	9,830 53	1 48	8 71	7,824 93	1,995 41
4	333 20	1,412 46	19	7 10	.....	1,752 95	.....	9 09	1,391 84	352 02
5	491 32	2,533 67	.....	14 08	.....	3,039 07	.....	5 90	2,352 45	680 72
6	101 39	632 09	41 25	5 18	.....	779 91	.....	3 67	606 51	169 73
7	333 47	1,720 40	11 15	10 67	.....	2,075 69	.....	5 28	1,584 28	486 13
Total...	$7,783 93	$ 33,770 74	$ 225 73	$ 77 81	.....	$ 41,858 21	$ 2 30	$ 108 60	$ 33,236 72	$8,510 59

SPECIAL PERMITS.

1	.....	$ 5 34	.....	.....	.....	$ 5 34	.....	.....	$ 5 34	.....
2	.....	12 64	.....	.....	.....	12 64	.....	.....	12 64	.....
3	.....	53 57	.....	.....	.....	53 57	.....	.....	53 57	.....
4	.....	34 58	.....	.....	.....	34 58	.....	.....	34 58	.....
5	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
6	.....	55 34	.....	.....	.....	55 34	.....	.....	55 34	.....
7	.....	22 00	.....	.....	.....	22 00	.....	.....	22 00	.....
Total...	.....	$ 183 47	.....	.....	.....	$ 183 47	.....	.....	$ 183 47	.....

BUILDING PERMITS.

1	.....	$ 98 62	.....	.....	.....	$ 98 62	.....	.....	$ 98 62	.....
2	.....	294 72	.....	.....	.....	294 72	.....	.....	294 72	.....
3	.....	280 75	.....	.....	.....	280 75	.....	.....	280 75	.....
4	.....	168 02	.....	.....	.....	168 02	.....	.....	168 02	.....
5	.....	152 91	.....	.....	.....	152 91	.....	.....	152 91	.....
6	.....	89 46	.....	.....	.....	89 46	.....	.....	89 46	.....
7	.....	14 48	.....	.....	.....	14 48	.....	.....	14 48	.....
Total...	.....	$ 1,098 86	.....	.....	.....	$ 1,098 96	.....	.....	$ 1,098 96	.....
Water..	$ 8,074 07	$151,218 75	$ 5,198 18	$ 594 97	$ 218 17	$165,304 14	$ 194 89	$7,327 55	$149,066 54	$ 8,715 16

PLUMBING ACCOUNTS.

1	$.....	$ 86 74	.....	.....	.....	$ 86 74	.....	$.....	$ 79 54	$ 7 20
2	92 05	931 07	.....	.....	.....	1,023 12	.....	6 46	986 06	30 60
3	579 11	389 86	.....	.....	.....	968 97	.....	9 16	872 79	87 02
4	7 11	1,084 45	.....	.....	.....	1,091 56	.....	.....	86 11	1,005 45
5	6 82	3 60	.....	.....	.....	10 42	.....	.....	10 42	.....
6	2 15	21 14	.....	.....	.....	22 29	.....	5 30	15 74	2 25
7	5 43	116 55	.....	.....	.....	121 98	.....	.....	121 98	.....
Total...	$ 692 67	$ 2,633 41	.....	.....	.....	$ 3,326 08	.....	$ 20 92	$ 2,172 64	$ 1,132 52
Gr'nd Tot'l	$ 8,766 74	$153,852 16	$ 5,198 18	$594 97	$ 218 17	$168,630 22	$ 194 89	$7,348 47	$151,239 18	$ 9,847 68

CITY OF ERIE, PENN'A.—IN ACCOUNT WITH COMMISSIONERS OF WATER WORKS, IN THE CITY OF ERIE.

Dr.			Cr.		
1903			1902		
Dec. 31.	Water for City Hall	274 05	Dec. 31	Balance due City	548579 20
	Engine Houses	237 82			
	Fire Hydrants (698 @ $55.00 per year)	38390 00	1903		
	Fountains—Parks	1251 05	Dec. 31	Interest on quarterly balances	20852 89
	Fountain—Lakesike Park	150 00			
	Fountains—Drinking (10 @ $15.00 and 3 @ $18.75 per year)	206 87		Rent of Office for one year	1200 00
	Flushing Sewers	90 00			
	Park—Central, East	50 00			
	Park—Central, West	50 00			
	Park—Lakeside, East	57 10			
	Park—Lakeside, West	72 00			
	Settling filling in sewer trench	201 50			
	Sprinkling State st. bet. Dock & Front	140 80			
	Sprinkling streets by Supt. of Streets	14 39			
	Sundries—Lowering mains account of overhead bridge	952 66			
	Interest on balances in Second Nat'l Bank	1472 88			
		43611 12			
	Balance due the City of Erie, Dec. 31, 1903	527020 97			
		570632 09			570632 09

RESOURCES.	
PLANT NORTH OF FRONT STREET.	
Buildings and Grounds including Piers to Intake No. 1	119002 50
Boiler House from January 1, 1896	17176 97
Boilers from January 1 1896	18881 54
Engine House No. 3 from January 1, 1892	21591 35
Engines and Boilers to December 31, 1891	107309 35
Engine No. 4 from January 1, 1892	49147 09
Engine No. 5 from January 1, 1898	34031 72
Electric Light Plant	5711 28
Engine Room Furniture and Fixtures	2067 27
Tools: Coal Elevator and Conveyor from January 1, 1900	2799 00
Tools: Including Machine Shop from January 1, 1901	2448 59
Tools: Meter Prover from January 1, 1900	500 21
Tools: Planer from January 1, 1903	1006 38
Intake Pipe: No. 1	55568 44
Intake Pipe: Eo. 2 from January 1, 1892	143826 35
Intake Pipe: No. 2 Extension from January 1, 1902	11952 28
Railroad Switches and Scales	3262 09
Steel Plate Chimney from January 1, 1896	4245 44
Water Lots from January 1, 1895	16151 00
PLANT SOUTH OF FRONT STREET.	
Connections	151375 38
Drinking Fountains	2265 81
Fire Hydrants	35937 17
High Service System from January 1, 1898	50156 61
Mains	738666 76
Main 30-inch	83289 35
Meters	28008 99
Stop Valves	50576 48
Office Furn ture and Fixtures	2847 49
Reservoir	137629 35
PERSONAL.	
Assessed Accounts	204 57
Meter "	8510 59
Plumbing "	1132 52
CASH.—In hands of Treasurer, City of Erie	104855 09

LIABILITIES.	
City of Erie	526366 80
Credits on Assessed Accounts	218 17
Balance	1485550 04

CITY OF ERIE, PENN'A.—IN ACCOUNT WITH COMMISSIONERS OF WATER WORKS, IN THE CITY OF ERIE.

Dr.			Cr.		
1903			1902		
Dec. 31.	Water for City Hall	274 05	Dec. 31	Balance due City	548579 20
	Engine Houses	237 82			
	Fire Hydrants (698 @ $55.00 per year)	38390 00	1903		
	Fountains—Parks	1251 05	Dec. 31	Interest on quarterly balances	20852 89
	Fountain—Lakesike Park	150 00			
	Fountains—Drinking (10 @ $15.00 and 3 @ $18.75 per year)	206 87		Rent of Office for one year	1200 00
	Flushing Sewers	90 00			
	Park—Central, East	50 00			
	Park—Central, West	50 00			
	Park—Lakeside, East	57 10			
	Park—Lakeside, West	72 00			
	Settling filling in sewer trench	201 50			
	Sprinkling State st. bet. Dock & Front	140 80			
	Sprinkling streets by Supt. of Streets	14 39			
	Sundries—Lowering mains account of overhead bridge	952 66			
	Interest on balances in Second Nat'l Bank	1472 88			
		43611 12			
	Balance due the City of Erie, Dec. 31, 1903	527020 97			
		570632 09			570632 09

STATEMENT OF RESOURCES AND LIABILITIES, DECEMBER 31, 1903.

RESOURCES.		LIABILITIES.	
PLANT NORTH OF FRONT STREET.			
Buildings and Grounds including Piers to Intake No. 1	119002 50	City of Erie	526366 80
Boiler House from January 1, 1896	17176 97	Credits on Assessed Accounts	218 17
Boilers from January 1 1896	18881 54	Balance	1485550 04
Engine House No. 3 from January 1, 1892	21591 35		
Engines and Boilers to December 31, 1891	107309 35		
Engine No. 4 from January 1, 1892	49147 09		
Engine No. 5 from January 1, 1898	34031 72		
Electric Light Plant	5711 28		
Engine Room Furniture and Fixtures	2067 27		
Tools: Coal Elevator and Conveyor from January 1, 1900	2799 00		
Tools: Including Machine Shop from January 1, 1901	2448 59		
Tools: Meter Prover from January 1, 1900	500 21		
Tools: Planer from January 1, 1903	1006 38		
Intake Pipe: No. 1	55568 44		
Intake Pipe: Eo. 2 from January 1, 1892	143826 35		
Intake Pipe: No. 2 Extension from January 1, 1902	11952 28		
Railroad Switches and Scales	3262 09		
Steel Plate Chimney from January 1, 1896	4245 44		
Water Lots from January 1, 1895	16151 00		
PLANT SOUTH OF FRONT STREET.			
Connections	151375 38		
Drinking Fountains	2265 81		
Fire Hydrants	35937 17		
High Service System from January 1, 1898	50156 61		
Mains	738666 76		
Main 30-inch	83289 35		
Meters	28008 99		
Stop Valves	50576 48		
Office Furniture and Fixtures	2847 49		
Reservoir	137629 35		
PERSONAL.			
Assessed Accounts	204 57		
Meter "	8510 59		
Plumbing "	1132 52		
CASH.—In hands of Treasurer, City of Erie	104855 09		
	2012135 01		2012135 01

ASSESSMENTS FOR 1904.

	WARDS.														TOTALS.	
	FIRST.		SECOND.		THIRD.		FOURTH.		FIFTH.		SIXTH.		SEVENTH.			
	No.	Amount.	No.	Amount.	No.	Amount.	No.	Amount.	No.	Amount.	No.	Amount.	No.	Amount.	No.	Amount.
Air Pumps	14	48 00	36	108 00	28	84 00	17	54 00	10	33 00	10	33 00	1	3 75	116	363 75
Aquariums					1	10 00									1	10 00
Automobiles	5	10 00	4	8 00	20	40 00	21	42 00	3	6 00	2	4 00			55	110 00
Bakeries	1	5 00	7	36 24	3	9 36	2	11 24	3	15 00	6	31 24	1	6 25	23	124 33
Banks	2	15 00			1	10 00	2	15 00							5	40 00
Barber Chairs	27	74 00	40	120 00	48	136 00	33	92 00	19	58 00	13	42 00			180	522 00
Bath Tubs	474	1408 00	512	1521 50	1028	3060 50	773	2197 00	300	889 00	316	937 50	25	87 50	3428	10101 00
Billiard Tables			4	4 00	39	39 00	5	5 00	2	2 00					50	50 00
Blacksmith Fires	3	12 50	11	45 00	8	35 00	5	20 00	5	25 00	1	5 00			33	142 50
Boat Houses	1	10 00					1	10 00							2	20 00
Bonds	5	11 86	10	42 97	2	9 97	4	5 80	11	35 33	8	32 58	6	284 85	46	423 36
Bottling Works			2	20 00											2	20 00
Bowling Alleys	1	5 00	1	5 00	2	10 00	1	5 00	1	5 00	1	5 00			7	35 00
Churches & Sunday Schools	4	5 33	8	13 37	17	32 75	8	16 71	5	8 36	7	11 72	1	2 09	50	90 33
City Parks	4	177 90					2	192 00							6	369 90
Club Rooms	8	24 00	8	40 00	6	24 00	7	25 00	1	3 00					30	116 00
Cows	8	6 00	5	2 75	4	3 00	4	3 00	26	19 00	7	5 25	2	1 88	56	40 88
Eating Houses	3	18 00	8	33 34	23	99 68	11	41 68	4	13 34	5	8 33			54	214 37
Elevators	1	120 00	3	10 00	2	65 00	1	6 00							7	201 00
Engine Houses	1	5 00	1	5 00	2	15 00			2	10 00	2	10 00			8	45 00
Engine, Gas, Horse Power	42	37 00	61	53 75	88	86 50	5	7 50	20	23 50	26	26 50			242	234 75
Engine, Steam, Horse Power	21	27 50	195	204 02	50	64 50	74	73 54	61	76 95	2	5 00	30	53 75	433	505 26
Total Engines, Horse Power	63	64 50	256	257 77	138	151 00	79	81 04	81	100 45	28	31 50	30	53 75	675	740 01
Families	1679	6702 69	2818	11242 65	2230	8896 03	1881	7113 35	1604	6402 66	1689	6734 68	129	641 67	12030	48133 73
Fish Hatchery							1	400 00							1	400 00
Fish Markets	2	15 00	1	5 00					1	5 00	1	5 00			5	30 00
Fish Ponds							1	30 00							1	30 00

Fountains	2	775 52			2	8 00	3	644 53	2	16 00					9	1444 05
Fountains—Drinking	2	30 00	2	30 00	1	15 00	2	30 00	2	30 00	1	15 00	3	56 25	13	206 25
Fountain—Cuspidors	1	3 00	7	21 00	14	42 00	2	6 00	1	3 00					25	75 00
Freight Houses			1	15 00	1	5 00									2	20 00
Glass Washers					2	18 00									1	18 00
Green Houses					1	32	4	10 35			1	22	7	17 92	13	28 81
Hand Basins	508	429 22	634	557 18	1245	1092 69	945	795 68	215	189 01	280	253 18	32	30 83	3859	3347 79
Heating Boilers, Horse P'r	235	48 34	667	91 92	574	112 67	513	132 50	242	51 35	231	31 10	108	33 74	2570	501 62
Horses	126	171 00	244	332 00	396	549 00	269	338 00	261	362 00	232	324 66	28	47 50	1556	2124 16
Laundries			3	15 00	3	15 00	2	10 00							8	40 00
Libraries	1	5 00													1	5 00
Lodging Rooms	152	144 00	205	196 83	331	330 34	204	204 00	40	36 00	49	31 82	9	11 25	990	954 24
Meat Markets	10	42 00	17	95 00	15	87 00	14	69 00	13	66 00	10	57 00			79	416 00
Milk Depots	2	5 00					2	10 00							3	15 00
Offices	90	269 21	133	422 50	104	360 00	64	253 00	4	12 00	3	11 00			398	1327 71
Opera Houses							1	10 00							1	10 00
Photograph Rooms			4	20 00	3	15 00	3	15 00	1	5 00	2	10 00			13	65 00
Printing Offices	4	30 00	2	10 00	4	35 00									10	75 00
Public Halls	10	48 00	12	55 00	10	51 67	7	35 00	6	30 00	7	29 67			52	249 34
Saloons	13	65 00	42	210 00	26	130 00	20	100 00	11	55 00	9	45 00	1	6 25	122	611 25
School Scholars	1099	98 57	2282	157 32	2105	186 50	867	84 70	1423	122 03	1125	83 29			8901	732 41
Slaughter Houses			1	8 00					3	15 00	2	16 00			6	39 00
Steamer, U. S. Michigan							1	30 00							1	30 00
Stores	65	262 00	175	631 00	200	853 00	90	348 00	44	140 00	48	164 00	1	3 75	623	2401 75
SPRINKLERS. Adjoining Lot	29	88 80	20	60 05	30	91 10	32	202 35	17	48 70	7	22 00			135	413 00
Curb	76	211 34	52	136 22	104	322 65	161	542 83	17	53 10	26	85 14	2	5 62	438	1356 90
Hydrant	34	118 72	44	112 20	52	198 72	88	310 52	36	127 30	52	182 53	3	12 50	309	1062 49
In House	74	239 40	95	311 62	56	183 90	72	240 05	62	202 75	87	274 87	10	42 19	456	1494 78
Lawn	93	164 34	77	213 39	115	385 60	113	306 67	106	241 30	73	214 97	12	39 31	589	1565 58
Sill Cock	604	1480 50	749	1857 51	1083	2870 23	818	2148 92	779	1907 89	696	1880 10	72	237 34	4801	12320 49
Total Sprinklers	910	2303 10	1037	2690 99	1440	4052 20	1284	3651 34	1017	2581 04	941	2597 61	99	336 96	6728	18213 24
Urinals	47	162 30	78	280 49	79	274 16	51	203 84	21	97 00	31	73 83			307	1091 62

ASSESSMENTS FOR 1904.

	WARDS.														TOTALS.	
	FIRST.		SECOND.		THIRD.		FOURTH.		FIFTH.		SIXTH.		SEVENTH.			
	No.	Amount.	No.	Amount.	No.	Amount.	No.	Amount.	No.	Amount.	No.	Amount.	No.	Amount.	No.	Amount.
Wash Tubs	106	146 67	47	68 33	302	432 33	320	445 00	15	21 00	49	58 00	5	8 75	844	1180 08
Wash Tubs, Revolving	.....	.....	.....	.....	3	15 00	4	20 00	.....	.....	.....	.....	.....	.....	7	35 00
Total Wash Tubs	106	146 67	47	68 33	305	447 33	324	465 00	15	21 00	49	58 00	5	8 75	851	1215 08
Water Closets, Closing	1028	3028 75	1529	4533 50	2242	6517 16	1509	4133 00	621	1794 50	708	2073 50	39	130 03	7676	22210 44
Water Closets, Non-closing	7	49 00	8	44 00	20	60 34	5	30 00	1	6 00	.....	.....	.....	.....	41	189 34
Total Water Closets	1035	3077 75	1537	4577 50	2262	6577 50	1514	4163 00	622	1800 50	708	2073 50	39	130 03	7717	22399 78
Warehouses	.....	.....	2	8 00	.....	.....	.....	.....	1	3 00	.....	.....	.....	.....	3	11 00
Water Motors	.....	.....	1	1 67	5	16 01	3	4 99	.....	.....	3	5 02	.....	.....	12	27 69
Water Troughs	.....	.....	5	50 00	1	10 00	2	15 00	8	80 00	2	20 00	.....	.....	18	175 00
Work Shops	16	60 00	50	182 50	61	198 00	38	122 00	7	23 00	9	30 00	1	3 75	182	619 25
Yacht	.....	.....	.....	.....	.....	.....	1	3 00	.....	.....	.....	.....	.....	.....	1	3 00
Grand Totals for 1904	6739	16913 46	10923	24247 82	12791	28221 68	9089	22519 75	6037	13368 07	5839	13826 70	528	1768 72	51946	120866 20
Grand Totals for 1903	6708	16406 62	9763	22969 20	12271	26634 93	8756	21741 69	5423	12248 68	5565	13021 59	442	1746 59	48928	114769 30
Total Gain for 1904	31	506 84	1160	1278 62	520	1586 75	333	778 06	614	1119 39	274	805 11	86	22 13	3018	6096 90

RATES FOR CITY WATER.

Approved by Select Council, August 19, 1895.—Approved by Common Council, September 16, 1895.—Approved by the Mayor, September 21, 1895.

AND AS AMENDED AND APPROVED NOVEMBER 25, 1899.

Are All Annual Except as Otherwise Indicated, and Payable Quarterly in Advance, as Follows:

First Quarter—January, February, March—January 1st.

Second Quarter—April, May, June—April 1st.

Third Quarter—July, August, September—July 1st.

Fourth Quarter—October, November, December—October 1st.

If the rents for any quarter are not paid within the *first month thereof, five per cent.* may be added. If payment is not made by the 15th day of February, May, August and November of each quarter, the water may be turned off from the premises, and shall not be turned on again without the consent of the Commissioners of Water Works, until all back rents and penalties are paid, and the further sum of one ($1.00) dollar.

Acetylene Gas Machines, for each 50 light machine or less ..... $	2 00
Air Pump	3 00
Automobile	2 00
Bath Tub—Private (one family) first tub	3 00
Bath Tub—Private (one family) each additional tub..	1 50
Bath Tub—Public, each tub	5 00
Bakery, per barrel of flour used (but no charge less than $5)	01
Barber Shop, first chair, including hand basin	4 00
Barber Shop, each additional chair, including hand basin	2 00

Billiard Tables, each	1 00
Billard Tables, when floor is carpeted, one-half the above rate.	
Blacksmith Fire, first fire	5 00
Blacksmith Fire, each additional fire	2 50
Boarding House, (in addition to family rates) per room	1 00
Building Purposes, per bushel of lime; to be paid for before work is begun	02
Butcher Stalls	3 00 to 15 00
Charitable Institutions, one-third annual rates.	
Cow	75
Condensing Boiler for Steam Heating, (per season of 6 months) per horse power	25
Eating Houses	5 00 to 25 00
Family	4 00
Fire Protection Fixtures, testing same, thirty (30) minutes or less	3 00
Fire Protection Fixtures, testing same, one (1) hour or less, but more than thirty (30) minutes	5 00
Flushing Sewers, settleing earth in ditches or purposes of like nature, per hour, or fractional part of an hour, each	5 00
Gas Engines, five-horse power or less	5 00
Gas Engines, for each additional horse power	1 00
Gas Engines, when water is used over and over again, from tank prepared for the purpose, one-half the above rates.	
Hand Basins in dwellings, hotels and schools, first basin	1 00
Hand Basins in dwellings, hotels and schools, each additional basin	50
Hand basins in offices, stores and blocks, each	1 00
Hotels, (in addition to family rates) per room	1 00
Laundry, shop	5 00
Laundry, wash tub, stationary, each	2 00
Laundry, revolving washer, each	5 00
Livery Stable, per horse	2 00
Offices	3 00 to 10 00
Private Stable, one or two horses	2 00
Private Stable, each additional horse over two	1 00
Printing Offices	5 00 to 30 00
Public Halls	5 00 to 25 00
Saloon	5 00 to 25 00
School, per pupil (in addition to fixtures)	10
Slaughter Houses	5 00 to 50 00
Sleeping Rooms, each	1 00
Sprinkling Streets or Lawns with Hose, per Season:	
Corner lot, 41 feet front or less	5 00
Inside lot, 41 feet front or less	3 00
For each additional foot front to either corner or inside lot	05

Steam Engines, 10 hours per day, each Horse Power..	2 50
Stores	3 00 to 15 00
Urinal, private, self-closing, (one family)	2 00
Urinal, private, not self-closing (one family).....	6 00
Urinal, public, self-closing	3 00
Urinal, public, not self-closing	10 00
Urinal, private or public, continuous flow	10 00 to 30 00
Wash Tub, Stationary, first tub (one family).....	2 00
Wash Tub, Stationary, each additional tub, (one family)	1 00
Water Closet, pan or tank, (one family) private	3 00
Water Closet, pan or tank, (one family) each additional water closet	1 50
Water Closet, pan or tank, public, each	5 00
Water Closet, hopper, (one family) private, for each water closet	6 00
Water Closet, hopper, public, for each water closet...	10 00
Work Shop, ordinary use	3 00 to 5 00

Sprinkling for any purpose will ONLY be allowed on premises where water is taken and paid for, for domestic or other inside use. The sprinkling season is from May 1st to November 1st, in each year.

There is no fractional part of a sprinkling season.

It will cost as much to sprinkle but once at any time during the sprinkling season as it will to sprinkle each day, at the prescribed hours, during the entire season.

Sprinkling must be confined to the hours between 5 and 8 A. M., 12 and 1 P. M. and 5 and 8 P. M., nor during said intervals more than one hour at a time. Persons who exceed one hour may be charged at fountain rates or held liable for violation of the rules, at the option of the Commissioners.

The inside diameter of hose used for sprinkling purposes must not be more than three-quarters of an inch, and the inside diameter of the orifice to the nozzle of the same must not be more than one-quarter of an inch. The use of leaky or defective hose is prohibited.

No person will be allowed to sprinkle adjoining or opposite premises, nor to use the water from any hose attachment, or through any hose for any purpose not authorized by the Commissioners. All sprinkling devices not held in the hand when used shall be classed as fountains, or fountain jets, and assessed accordingly, ***but not less than double sprinkling rates.***

Fountains, fountain jets, etc., will be assessed according to the inside diameter of its principal part or parts, and for a continuous flow during the entire sprinkling season.

Hose must not be used for cleaning streets or street gutters, for washing away collections of leaves, heaps of dirt or offal, or flooding streets.

Sprinkling fixtures, to which hose can be attached, no matter where located on any premises, makes said premises assessable for sprinkling.

All plumbing from the curb line inward must be done by a licensed plumber.

Water fixtures will be assessed for each and every purpose available, and for each family or establishment within the enclosure or separated only by a door, gateway or other means of easy communication.

No abatement of charges shall be allowed for vacancy of premises *except from the date that notice has been given at the office of the Commissioners of Water Works that they are unoccupied.*

The Commissioners may limit or stop the supply of water in cases of emergency, and shut it off for repairs or extentions, they being the judges of the time and necessity. Neither the Commissioners nor the City of Erie shall be liable in damages for any insufficient supply of City Water.

For each and every violation of the rules and regulations of the Water Works, the offending party will be subject to a fine of not less than five nor more than fifty dollars.

METER RATES.

Twenty (20) cents for each one thousand (1,000) gallons for the first Twenty-five Thousand (25,000) gallons, and Four (4) cents for each one Thousand (1,000) gallons consumed thereafter during each current quarter.

PROVIDED, The minimum receipts from each meter (for each quarter) shall be as follows:

¾ inch or less	$ 3 75	1 inch	$ 4 50
1½ inch	6 25	2 inch	10 00
3 inch	18 75	4 inch	38 75
6 inch	$100 00		

TERMS: All water sold by Meter Measurement must be paid for on or before THE TENTH DAY OF THE FIRST MONTH OF EACH QUARTER. All Meter accounts remaining unpaid at the close of business on the 10th day of said month, shall have Five Per Centum added thereto. On the 15th day of said month, WATER MAY BE TURNED OFF from the property whose meter account is unpaid, and will not be again turned on until all arrearages and penalties are paid, and the further sum of One ($1.00) Dollar.

Swimming Pool at Pumping Station.

STATEMENT OF WORK DONE BY INSPECTOR No. 1 IN 1903.

MONTHS.	TURNED OFF ACCOUNT.			TURNED ON ACCOUNT.		NEW HOUSES.		FIXTURES.						TOTALS.
	Unpaid.	Vacancies.	Leaks and Waste.	Paid.	Occupied.	Building Purposes.	Completed.	Complaints.	Frozen.	Installed.	Removed.	Leaks and Waste.	Vacancies.	
January	.....	2	.....	.....	28	7	21	18	58	104	51	5	.....	298
February	.....	.....	.....	1	13	4	10	10	64	146	16	6	540	810
March	.....	.....	.....	.....	40	10	29	9	54	125	35	7	.....	309
April	.....	1	.....	.....	38	7	62	8	.....	170	32	3	.....	321
May	.....	.....	.....	.....	36	3	48	4	.....	330	36	5	323	785
June	.....	.....	.....	.....	26	9	47	4	.....	282	29	4	.....	401
July	.....	.....	.....	.....	22	14	25	6	.....	167	34	2	.....	272
August	.....	.....	.....	.....	17	10	32	1	.....	202	14	4	379	659
September	.....	1	.....	.....	13	5	20	.....	.....	85	10	.....	.....	134
October	.....	.....	1	.....	28	12	52	3	.....	119	37	3	.....	255
November	.....	1	.....	.....	13	4	42	1	.....	142	16	1	397	617
December	.....	1	1	.....	10	13	27	5	.....	114	30	4	.....	205
Total	.....	6	2	1	286	98	415	69	176	1986	340	44	1639	5061

STATEMENT OF WORK DONE BY INSPECTOR NO. 2, IN 1903.

MONTHS.	TURNED OFF ACCOUNT.			TURNED ON ACCOUNT.		NEW HOUSES.		FIXTURES.						TOTALS.
	Unpaid.	Vacancies.	Leaks and Waste.	Paid.	Occupied.	Building Purposes.	Completed.	Complaints.	Frozen.	Installed.	Removed.	Leaks and Waste.	Vacancies.	
January														
February	2		1				1			12				16
March										5				5
April														
May	3				1					14				18
June										3				3
July														
August										2	1			3
September					1		3			7	1			12
October														
November										14				14
December										8				8
Total	5		1		2		4			65	2			79

STATEMENT OF WORK DONE BY INSPECTOR NO. 3, IN 1903.

MONTHS.	TURNED OFF ACCOUNT.			TURNED ON ACCOUNT.		NEW HOUSES.		FIXTURES.						TOTALS.
	Unpaid.	Vacancies.	Leaks and Waste.	Paid.	Occupied.	Building Purposes.	Completed.	Complaints.	Frozen.	Installed.	Removed.	Leaks and Waste.	Vacancies.	
January														
February	1									15				16
March					2									2
April		1			3	1	5			18	11			39
May	2				1					21				24
June										3				3
July														
August					1					16				17
September					6	1	6			35	4		34	86
October														
November										14				14
December										4				4
Total	3	1			13	2	11			126	15		34	205

1903. **Statement of Work Done at Annual Inspection by Inspector No. 2.** **1903.**

WARD.	ENGINES.			FIXTURES.						SPRINKLERS.				TUBS.			WATER CLOSETS.		TOTAL.
	Air Pumps.	Gas.	Steam	Draw Cocks.	Goose Necks.	Hydrants.	Hand Basins.	Heating Boilers.	Premises.	Curb.	Hydrant.	Lawn.	Sill Cocks.	Bath.	Wash.	Urinals.	Non-Closing or Hopper.	Pan or Tank.	
Third	28	88	50	3049	3	204	1245	574	2075	104	52	115	1083	1028	305	79	20	2242	12344
Fourth	17	5	74	2323	8	283	945	513	1819	161	88	113	818	773	324	51	5	1509	9829
Sixth	10	26	2	1844	5	170	280	231	1561	26	52	73	696	316	49	31	.....	708	6080
Seventh	1	...	.....	69	.....	11	7	9	63	2	.....	25	15	5	.....		.....	6	213
Total	56	119	126	7285	16	668	2477	1327	5518	293	192	326	2612	2122	678	161	25	4465	28466

1903. **Statement of Work Done at Annual Inspection by Inspector No. 3.** **1903.**

First	14	3	3	1931	14	133	508	28	1460	76	34	93	604	474	106	47	7	1028	6563
Second	36	12	13	3296	7	238	634	46	2460	52	44	77	749	512	47	78	8	1529	9838
Fifth	10	4	3	1943	2	90	215	35	1512	17	36	106	779	300	15	21	1	621	5710
Seventh	.....	.....	1	103	.....	.....	24	9	94	.....	2	10	57	19	5	.....	.....	30	354
Total	60	19	20	7273	23	461	1381	118	5526	145	116	286	2189	1305	173	146	16	3208	22465

Etc., from the First Year Works were operated to December 31, 1903.

YEAR.	Tons Coal Consumed.	Cost Coal from Jan. 1 to Dec. 31.	Grades of Bituminous Coal.	Gallons of Water Pumped.	Increase or Decrease.	Number of places supplied.	No. of Fire Hydrants	Average height of Water in Reservoir above surface of Bay.	Cost Coal per million gallons raised to Reservoir.	Gallons raised to Reservoir by one pound of Coal.
1868.....	591 1	$ 309 61	Lump.	.....	.....	.....	.....	.....	.....	.....
1869.....	544 4	4,818 48	"	.....	.....	.....	.....	.....	.....	.....
1870.....	1,064 5	5,159 10	"	246,648,960	.....	1,218	97	232 0	.....	.....
1871.....	1,422 7	7,117 00	"	279,368,495	32,719,535 *i*	1,727	99	232 0	$18 76	98 5
1872.....	1,308 5	6,528 50	"	395,076,000	115,707,505 *i*	2,140	103	232 0	16 52	150 9
1873.....	1,672 5	8,412 65	"	384,062,415	11,013,585 *d*	2,475	107	232 0	21 90	114 8
1874.....	1,759 0	7,709 54	"	444,817,395	60,754,980 *i*	2,663	107	232 0	17 38	126 4
1875.....	1,836 4	8,657 61	"	671,005,475	86,188,080 *i*	2,700	110	232 0	16 30	145 5
1876.....	1,105 1	8,925 22	"	670,726,650	139,721,175 *i*	2,763	112	232 0	13 30	159 3
1877.....	2,456 6	8,509 33	"	660,981,810	9,744,840 *d*	2,854	114	232 0	12 75	135 7
1878.....	2,463 3	7,945 37	"	682,392,315	21,410,505 *i*	2,915	115	232 0	11 64	136 4
1879.....	2,628 1	7,428 92	"	807,800,400	125,408,085 *i*	3,011	121	232 0	9 19	153 6
1880.....	3,076 1	6,978 41	"	775,805,250	31,995,150 *d*	3,568	126	232 0	8 99	126 0
1881.....	3,430 3	6,517 58	Slack.	975,640,934	219,835,684 *i*	4,110	161	232 0	6 68	142 2
1882.....	2,968 2	5,355 93	"	829,759,260	145,881,674 *d*	4,687	171	234 0	6 45	139 7
1883.....	2,398 2	3,908 59	"	815,939,685	13,819,575 *d*	5,077	197	234 7	4 66	170 0
1884.....	3,010 8	4,502 61	"	917,781,350	101,841,665 *i*	5,395	248	234 3	4 99	152 4
1885.....	3,243 8	4,575 79	"	1,036,496,665	118,715,315 *i*	5,658	270	232 9	4 40	159 7
1886.....	3,369 0	4,318 64	"	1,117,389,075	80,892,410 *i*	6,140	280	233 3	3 86	165 8
1887.....	2,820 4	3,589 31	"	1,218,213,688	100,824,613 *i*	6,368	318	234 1	2 95	216 0
1888.....	2,392 3	2,545 46	"	1,341,708,002	123,494,314 *i*	6,600	333	234 6	1 89	192 1
1889.....	2,446 0	2,661 12	"	1,475,358,220	133,650,218 *i*	7,086	346	235 2	1 80	301 5
1890.....	2,583 6	3,052 89	"	1,659,625,551	184,267,331 *i*	7,728	372	236 9	1 81	322 4
1891.....	3,120 7	3,941 53	"	1,807,038,580	147,413,029 *i*	8,255	393	237 3	2 18	291 42
1892.....	3,658 0	4,807 11	"	2,047,993,505	240,954,925 *i*	8,998	415	237 4	2 35	279 43
1893.....	4,693 5	6,218 95	"	2,333,638,610	285,645,105 *i*	9,687	444	236 5	2 66	248 6
1894.....	2,960 0	4,423 59	"	1,816,596,518	517,042,092 *d*	10,680	479	236 6	2 43	306 8
1895.....	3,541 5	4,377 16	"	1,975,396,305	158,797,787 *i*	.....	489	237 2	2 21	278 62
1896.....	3,056 0	3,603 28	"	2,005,757,728	30,361,423 *i*	10,846	514	237 6	1 796	328 17
1897.....	3,338 2	4,507 52	"	2,215,416,779	209,659,042 *i*	11,385	523	235 9	2 034	331 75
1898.....	3,119 0	3,815 68	Miscel's.	2,270,520,528	55,103,758 *i*	11,739	543	235 6	1 68	363 98
1899.....	3,819 1	4,633 06	Slack.	2,722,322,604	451,802,076 *i*	11,932	565	235 48	*1 701	356 408
1900.....	5,285 9	7,754 34	"	3,124,440,644	402,118,040 *i*	12,451	595	235 46	2 318	315 887
1901.....	5,199 75	8,103 99	"	3,190,024,916	65,584,272 *i*	12,949	632	236 04	2 005	398 878
1902.....	5,668 75	9,070 00	"	3,224,360,754	34,335,838 *i*	13,351	670	236 13	2 541	314 802
1903.....	5,450 65	11,610 52	"	3,315,335,518	90,974,764 *i*	14,422	698	236 9	2 855	304 122

*HIGH SERVICE SYSTEM comprises all the territory south of Nineteenth street. In this district the average lift in feet for 1903 was 278.11. See Pumping Statistics.

PUMPING STATISTICS FOR 1903.

MONTHS.	No. 3 GASKILL. 5,000,000 Gallons. SERVICE.						No. 4 WORTHINGTON 12,000,000 Gallons. SERVICE.		No. 5 WORTHINGTON. 8,000,000 Gallons. SERVICE.					
	HIGH.		LOW.		TOTAL.		LOW.		HIGH.		LOW.		TOTAL.	
	Days Run	Gallons.	Days Run	Gallons.	Days Run	Gallons.	Days Run	Gallons.	Days Run	Gallons.	Days Run	Gallons.	Days Run	Gallons.
January	24	88,426,520	.....	.....	24	88,426,520	9	48,409,848	7	24,583,152	24	134,057,352	31	158,640 504
February	28	102,115,468	.....	.....	28	102,115,468	.....	.....	.....	.....	28	170,785,560	28	170,785,560
March	31	107,930,732	.....	.....	31	107,930,732	8	45,882,792	.....	.....	23	119,724,000	23	119,724,000
April	30	100,022,468	.....	.....	30	100,022,468	30	157,058,352	.....	.....	.....	.....	.....	.....
May	3	10,066,056	.....	.....	3	10,066,056	31	167,614,800	28	97,419,696	.....	.....	28	97,419,696
June	.....	.....	.....	.....	.....	.....	30	161,274,528	30	96,274,992	.....	.....	30	96,274,992
July	.....	.....	.....	.....	.....	.....	31	184,463,496	31	101,203,344	.....	.....	31	101,203,344
August	13	42,971,474	.....	.....	13	42,971,474	31	187,522,680	18	57,062,544	.....	.....	18	57,062,544
September	30	105,454,986	.....	.....	30	105,454,986	30	170,324,016	.....	.....	.....	.....	.....	.....
October	31	104,199,550	.....	.....	31	104,199,550	31	166,917,072	.....	.....	.....	.....	.....	.....
November	30	100,384,284	.....	.....	30	100,384,284	30	162,460,224	.....	.....	.....	.....	.....	.....
December	31	110,448,156	.....	.....	31	110,448,156	3	15,007,776	.....	.....	28	175,269,600	28	175,269,600
Total	251	872,019,694	.....	.....	251	872,019,694	264	1,466,935,584	114	376,543,728	103	599,836,512	217	976,380,240
Daily Average		3,474,182	.....	.....		3,474,182		5,556,574		3,303,015		5,823,655		4,499,448

PUMPING STATISTICS FOR 1903.—Continued.

MONTHS.	ENGINES. TOTAL SERVICE. HIGH. Days Run.	ENGINES. TOTAL SERVICE. HIGH. Gallons.	ENGINES. TOTAL SERVICE. LOW. Days Run.	ENGINES. TOTAL SERVICE. LOW. Gallons.	TOTAL. Days Run.	TOTAL. Gallons.	DAILY AVERAGE FOR EACH MONTH.	AVERAGE LIFT IN FEET. SERVICE. HIGH.	AVERAGE LIFT IN FEET. SERVICE. LOW.
January	31	113,009,672	31	182.467,200	31	295,476,872	9,531,512	27,454	23,634
February	28	102,115,468	28	170,785,560	28	272,901,028	9,746,465	27,338	23,631
March	31	107,930,732	31	165,606,792	31	273.537,524	8,823,791	27,238	23,627
April	30	100,022,468	30	157,058,352	30	257,080 820	8,569,361	27,195	23,534
May	31	107,485,752	31	167,614,800	31	275,100,552	8,874,211	27,516	23,603
June	30	96,274.992	30	161,274,528	30	257,549,520	8,584,984	27,271	23,560
July	31	101,203,344	31	184,463,496	31	285,666,840	9,215,059	27,391	23,572
August	31	100,034,018	31	187,522,680	31	287,556,698	9,276,023	27,509	23,605
September	30	105,454,986	30	170,324,016	30	275,779,002	9,192,633	27,276	23,611
October	31	104,199,550	31	166,917,072	31	271,116,622	8,745,697	27,288	23,624
November	30	100,384,284	30	162,460,224	30	262,844,508	8,761,483	27,202	23,662
December	31	110,448,156	31	190,277,376	31	300,725,532	9,700,824	27,057	23,642
Totals	365	1,248,563,422	365	2.066,772,096	365	3,315,335,518		327,735	283,305
Daily Average		3,420,721		5,662,389		9,083,110		27,311	23,609

DESCRIPTION OF RESERVOIR, STAND PIPE, BOILER HOUSE, ENGINES, INTAKE PIPES AND SWIMMING POOL.

Reservoir.

The reservoir was constructed in 1873 and is about two miles distant from the pumping station, the bottom of which is 210 feet from above the zero level of the water in the bay, and when the water is carried to a depth of 27 feet, holds 32,952,934 gallons of water.

Stand Pipe.

The stand pipe was erected in 1868. It is five feet in diameter and 259.65 feet in height. A spiral stircase surrounds it and all enclosed in brick. So far as we know, this is the tallest stand pipe in the world.

Boiler House.

The boiler house was erected in 1897 and is 74 feet wide, 102 feet long, and 25 feet from floor line to bottom of cords to roof. On the north side eight horizontal tubular boilers are installed in batteries of two each. The boilers are 72 inches in diameter, 18 feet long, without domes, and contain 80 4-inch lap welded tubes, capable of carrying 150 lbs. pressure to the square inch.

On the south side of the house can be erected an equal number of the same size boilers, but until these are required the room is used for storing coal; the bins now in place hold 800 tons of coal.

On the north side of the boiler house, near the east end, is a self-sustaining steel plate chimney, 175 feet high, 75 inches internal diameter, lined with fire-brick to a height of 80 feet. The chimney was erected in 1897.

Engines.

There are five pumping engines.

Nos. 1 and 2 are Cornish Bull Pumps, erected in 1868; alike in their dimension, which are as follows: Steam cylinders, 60 inches in diameter; Pump Plunger, 20¼ inches in diameter, each 10-foot stroke, capacity being 165 gallons per stroke, pumping 2,000,000 gallons daily. These pumps are out of commission, the cost for repairs being greater than they are worth.

No. 3 is a Gaskill Horizontal Compound Pumping Engine, erected in 1886, having two H. P. Cylinders, 21 inches in diameter, two L. P. Cylinders, 42 inches in diameter, two pumps 19½ inches in diameter, all 36-inch stroke; capacity being 182 gallons per revolution, pumping 5,000,000 gallons daily.

No. 4, is a Worthington Horizontal Compound High Duty Pumping Engine, erected in 1893, having two H. P. Cylinders, 33 inches in diameter, two L. P. Cylinders, 66 inches in diameter, two pumps, 29 inches in diameter, all 49¾-inch stroke; capacity being 552 gallons per stroke; pumping 12,000,000 gallons per day, at a piston speed of 128 feet per minute, against a head of 260 feet.

No. 5, is a Worthington Horizontal Compound High Duty Pumping Engine, erected in 1899, having two H. P. Steam Cylinders, each 25 inches in diameter; two L. P. Cylinders, each 50 inches in diameter, two double acting water plungers, each 23 inches in diameter, all 36-inch stroke; capacity being 264 gallons per stroke, pumping 8,000,000 gallons per day, at a piston speed of 136 feet per minute, against a total load of 142 pounds per square inch (a head of 328 feet).

The regular employes at the pumping works are one chief engineer, one machinist, two assistant engineers, three greasers, three firemen, one assistant fireman, one watchman and keeper of grounds and one janitor. The chief engineer stands a watch of five hours, from 7 to 12 every forenoon; the assistants divide the remainder of each day equally between them.

Intake Pipes.

There are two intakes, one constructed in 1868, of which 52 feet is brick, 14 feet in diameter, 590 feet is wood 4¼ feet in diameter, and 333 feet is boiler iron 4 feet in diameter, making a total length of 975 feet. The top of the outer end of this intake is four feet below the zero level of the bay, and as it approaches the shore ascends until the top is only two feet above the zero level of the bay. *This intake has not been used since the new one was completed, and as the part made of wood has not been submerged for some time it is undoubtedly past use.*

The second intake was completed in 1896. It is made of cast iron, 60 inches internal diameter, 8,307.18 feet long, buried in the bottom of the bay; at no place is there less than three feet of earth over its top. The outer end terminates in an octagonal crib, 40 feet being its extreme width, and 8 feet high, the top being 13 feet below zero level of the bay. So far as we know, this is the longest single piece of submerged 60-inch cast ironpipe in the world.

Swimming Pool.

The Swimming Pool was built on land reclaimed at the foot of Chestnut street, near the Pumping Station, in the early part of 1902. The interior of the Pool covers a space 75 feet wide and 155 feet long, lined with Portland Cement. The depth of water ranges from 1 6-12 to 6 9-12 feet, and is supplied from a four-inch water pipe. On the west side of the Pool, there are thirty-four cabinets, each 3½ x 5 feet, also an attendant's room 15 x 5 feet.

FIRE HYDRANTS PLACED IN 1903.

STREET.	LOCATION.	SIZE. Inches.	STYLE.	REMARKS.
Pumping Station	87 ft. North of Engine House No. 1	4	Mathews	
Fourth	5 6 ft. East of Liberty	6	"	In place of 4-inch Bay State.
Fourth	8 ft. East of Plum	6	"	
Eighth	509 ft. East of Payne Avenue	4	"	
Ninth	102 ft. East of Pennsylvan'a Avenue	6	"	
Twelfth	5 ft. West of German	6	"	Three Way Hydrant.
Twelfth	308 ft. West of Cranberry	6	"	
Twelfth	497 ft. West of Cranberry	6	"	
Fourteenth	330 ft. East of French	6	"	Three Way Hydrant.
Sixteenth	5 ft. West of Plum	6	"	
Buffalo Road	12.4 ft. East of Pensylvania Avenue			4-inch Mathew taken out.
Nineteenth	79 ft. East of Raspberry	6	"	
Twentieth	190 ft. West of Perry	6	"	
Warfel Avenue	5 ft. North of Twenty-first	4	"	
Twenty-first	12.6 ft. West of East Avenue	6	"	Three Way Hydrant.
Twenty-third	305 ft. West of East Avenue	4	"	
Twenty-third	338 ft. East of Wayne			4-inch Mathews taken out.
Twenty-third	5 ft. West of Perry	6	"	
Twenty-third	134 ft. West of French	4	"	
Twenty-fourth	5.5 ft. West of Holland	6	"	In place of 4-inch Bay State.
Twenty-fifth	5 ft. East of Perry	6	"	
Twenty-fifth	261.6 ft. East of Perry	4	"	
Twenty-fifth	427 ft. East of Wayne			4-inch Mathews taken out.
Twenty-seventh	5 ft. East of Parade	6	"	
Twenty-eighth	228 ft. East of Holland	4	"	
Twenty-eighth	191 ft. West of Plum			6-inch Mathews taken out.
Twenty-eighth	175 ft. West of Cascade	6	"	
Twenty-ninth	6 ft. East of Chestnut	6	"	
Twenty-ninth	173 ft. West of Cochran			6-inch Mathews taken out.
Queen	389 ft. East of East Avenue			4-inch Bay State taken out.
Queen	462.6 ft. East of East Avenue	4	Bay State	

Fulton	157.8 ft. North of Tenth	4	Mathews	
East Avenue	500 ft. South of Twenty-sixth	4	"	
East Avenue	5 ft. North of Buffalo Road			4-inch Mathews taken out.
East Avenue	135 ft. South of Twenty-sixth			4-inch Bay State taken out.
East Avenue	5 ft. South of Twenty-sixth	6	"	
Wayne	5 ft. South of Eighteenth	4	"	
Ash	5 ft. South of Nineteenth	6	"	
Ash	85 ft. South of Nineteenth			4-inch Mathews taken out.
German	5 ft. North of Eleventh	6	"	
German	6 feet South of Eleventh			4-inch Mathews taken out.
German	5.6 ft. North of Twelfth	6	"	In place of 4 inch Mathews.
German	5 ft. North of Thirteenth	6	"	" " " "
German	5 ft. North of Fourteenth	6	"	" " " "
German	5 ft. South of Sixteenth	6	"	Three Way Hydrant.
German	5 ft. North of Seventeeth	6	"	
Orchard	200 ft. North of Eliot			6-inch Mathews taken out.
Orchard	5 ft. North of Eliot	6	"	
Sassafras	15.4 ft. South of Front	6	"	
Sassafras	74 ft. North of Front	6	"	
Sassafras	257.3 ft. North of Front	6	"	Three Way Hydrant.
Reservoir	428 ft. South of Twenty-sixth	4	"	
Reservoir	361 ft. South of Twenty-sixth			4-inch Mathews taken out.
Poplar	38.6 ft. South of Fourth			6 " " " "
Liberty	55 ft. South of Tenth	6	"	
Liberty	5 ft. North of Twenty-ninth	4	"	
Liberty	68 ft. South of Twenty-ninth	4	"	
Liberty	721 ft. South of Twenty-sixth			4 " " " "
Plum	424.3 ft. North of Sixteenth	6	"	
Plum	116 ft. North of Sixteenth			6 " " " "
Cascade	118.4 ft. North of Eighth	6	"	
Raspberry	228 ft. South of Twenty-seventh			6 " " " "
Raspberry	5 ft. North of Twenty-eighth	6	"	
Raspberry	350 ft. South of Twelfth	6	"	
Cranberry	5 ft. North of Eleventh	6	"	

SUMMARY OF
FIRE HYDRANTS PLACED AND REMOVED IN 1903.

Placed.

STYLE.—	SIZE.	NUMBER.	
Bay State	4-inch.	1	
Mathews	4-inch.	13	
Mathews	6-inch.	33	49

Removed.

STYLE.—	SIZE.	NUMBER.	
Bay State	4-inch.	4	
Mathews	4-inch.	11	
Mathews	6-inch.	6	21
Net Increase			28
Number in use December 31, 1902			670
Total in use December 31, 1903			698

STOP VALVES PLACED IN 1903.

STREET.	WHERE LOCATED,	SIZE.	STYLE.	REMARKS.
Front	6.6 ft. East of the East line of Holland 55.3 ft. North of the North line of Second	4-inch	Ludlow	
Front	22 ft. East of the East line of Sassafras 12 ft. North of the South line of Front	4-inch	Eddy	
Front	21 ft. East of the East line of Sassafras	4-inch	Eddy	
Front	158 ft. West of the West line of Sassafras 126 ft. North of the North line of Front			4-inch Ludlow taken out
Third	West line of Liberty	4-inch	Eddy	
Fourth	West line of Sassafras	6-inch	Eddy	
Fourth	West line of Poplar			4-inch Eddy taken out.
Fourth	East line of Cascade	4-inch	Eddy	
Eighth	East line of Payne Avenue	6-inch	Eddy	
Ninth	East line of Pennsylvania Avenue	6-inch	Eddy	
Ninth	West line of Wayne	6-inch	Eddy	
Tenth	East line of German	6-inch	Eddy	
Tenth	East line of Cranberry	6-inch	Eddy	
Eleventh	East line of German	6-inch	Eddy	
Eleventh	West line of German	6-inch	Eddy	In place of 4-inch Eddy taken out.
Eleventh	East line of Cranberry	6-inch	Eddy	
Twelfth	East line of German	12-inch	Eddy	
Thirteenth	East line of German	6-inch	Eddy	In place of 4-inch Eddy taken out.
Thirteenth	West line of German	6-inch	Eddy	In place of 4-inch taken out.
Fourteenth	West line of German	6-inch	Eddy	
Fourteenth	East line of German	6-inch	Eddy	In place of 4-inch taken out.
Fifteenth	East line of German	6-inch	Eddy	In place of 4-inch taken out.
Sixteenth	West line of Plum	6-inch	Eddy	
Seventeenth	West line of German	6-inch	Eddy	
Seventeenth	East line of Walnut	4-inch	Eddy	

STOP VALVES PLACED IN 1903.—Continued.

STREET.	WHERE LOCATED.	SIZE.	STYLE.	REMARKS.
Nineteenth	East line of Raspberry	6-inch	Eddy	
Twentieth	West line of Perry	6-inch	Eddy	
Buffalo Road	9 ft. of the East line of East Avenue			6-inch Eddy taken out.
Buffalo Road	147 ft. East of the East line of East Avenue	6-inch	Eddy	
Buffalo Road	426.9 ft. East of the East line of East Ave.	6-inch	Eddy	
Buffalo Road	10.10 ft. East of the East line of Penn'a Ave.			6-inch Eddy taken out
Buffalo Road	West line of East Avenue			6-inch Eddy taken out
Twenty-first	East line of East Avenue	6-inch	Eddy	
Twenty-third	West line of East Avenue	6-inch	Eddy	
Twenty-third	West line of French	6-inch	Eddy	
Twenty-fifth	West line of Perry	6-inch	Eddy	
Twenty-fifth	East line of Perry	6-inch	Eddy	
Twenty-sixth	1 ft. East of the East line of Cherry 12 ft. N. of the S. line of Twenty-sixth	¾-inch		Air Valve.
Twenty-seventh	East line of Parade	6-inch	Eddy	
Orchard	North line of Eliot	6-inch	Eddy	
Fulton	North line of Tenth	6-inch	Eddy	
Warfel Avenue	South line of Buffalo Road			6-inch Eddy taken out.
Railroad	South line of Buffalo Road			4-inch Eddy taken out.
Railroad	East line of Pennsylvania Avenue	4-inch	Eddy	
East Avenue	North line of Twenty-first	12-inch	Eddy	
East Avenue	North line of Buffalo Road			6-inch Eddy taken out.
East Avenue	North line of Buffalo Road			12-inch Eddy taken out.
East Avenue	South line of Buffalo Road			12-inch Eddy taken out.
East Avenue	64 ft. North of the N. line of Buffalo Road	12-inch	Eddy	
East Avenue	87.2 ft. N. of the N. line of Buffalo Road 26 ft. West of the East line of East Ave.	6-inch	Eddy	
Wayne	South line of Ninth	6-inch	Eddy	

German	North line of Ninth	4-inch	Eddy	In place of old 4-in. Eddy taken out
German	North line Twelfth	6-inch	Eddy	In place of 4-inch Eddy taken out.
German	South line of Twelfth	6 inch	Eddy	In place of 4-inch Ludlow taken out
German	North line of Fourteenth	6-inch	Eddy	
Holland	North line of Sixteenth	6-inch	Eddy	In place of 4-inch Eddy taken out.
Holland	13.9 ft. N. of the North line of Sixteenth 18.6 ft. West of the East line of Holland	6-inch	Eddy	
Holland	7.1 ft. North of the North line of Sixteenth 18 ft. West of the East line of Holland	6-inch	Pratt & Cady	Check Valve.
Sassafras	North line of Fourth	4-inch	Eddy	In place of 4-in. Ludlow taken out.
Sassafras	North line of Second	4-inch	Eddy	In place of 4-in. Ludlow taken out.
Sassafras	5 ft. South of the South line of Front	6-inch	Eddy	In place of 4-in. Eddy taken out.
Sassafras	25.6 ft. North of the South line of Front	6-inch	Eddy	
Sassafras	75.6 ft. North of the North line of Front 24 ft. West of the East line of Sassafras	6-inch	Eddy	
Poplar	South line of Fourth	6-inch	Eddy	
Poplar	North line of Fourth	6-inch	Eddy	In place of 4-in. Eddy taken out.
Liberty	North line of Fourth	6-inch	Eddy	In place of 4-in. Eddy taken out.
Liberty	North line of Twenty-ninth	6-inch	Eddy	
Plum	North line of Fourth	6-inch	Eddy	
Plum	South line of Fourth	6-inch	Eddy	
Raspberry	South line of Eighteenth	6-inch	Eddy	
Raspberry	336.5 ft. South of the South line of Twelfth	6-inch	Eddy	
Cranberry	South line of Tenth	12-inch	Eddy	
Cranberry	North line of Twelfth	12-inch	Eddy	

STATEMENT OF STOP VALVES.

	STYLE.	SIZE IN INCHES.													TOTAL.	
		¾	1	1¼	1½	2	4	6	8	12	20	24	30	48		
	Boston										1		1		2	
	Curtis							2							2	
	Eddy						348	702	14	112	14	1	7	2	1200	
	Jarecki & Hays	12	8		10	32									62	
	Ludlow						85	50		3	11				149	
	Pratt & Cady							1	4	3					8	
	Hays	1	1			2									4	
Total number Stop valves in use December 31, 1902	Total	13	9		10	34	433	755	18	118	26	1	8	2		1427
	Eddy						8	46		5					59	
	Ludlow						1								1	
	Pratt & Cady							1							1	
Automatic Air Valve	Loetzer	1													1	
Total number Stop Valves placed during 1903	Total	1					9	47		5						62
Total number Stop Valves placed to December 31, 1903	Total	14	9		10	34	452	802	18	123	26	1	8	2		1489
	Eddy						12	5		2					19	
	Ludlow						4								4	
Total number Stop Valves removed during 1903	Total						16	5		2						23
Total number Stop Valves in use December 31, 1903	Total	14	9		10	34	436	797	18	121	26	1	8	2		1466

MAIN PIPE LAID IN 1903.

STREETS.	LOCATION.	SIZES. ¾ in. Ft.	¾ in. In.	1 in. Ft.	1 in. In.	1½ in. Ft.	1½ in. In.	2 in. Ft.	2 in. In.	4 in. Ft.	4 in. In.	6 in. Ft.	6 in. In.	8 in. Ft.	8 in. In.	12 in. Ft.	12 in. In.	20 in. Ft.	20 in. In.	30 in. Ft.	30 in. In.	42 in. Ft.	42 in. In.	REMARKS.
Front St. W.W. Grounds	87 ft. N. of north line of Engine House No. 1, thence westwardly									16	6													
Front	Commencing at East line of Sassafras westwardly																							350 ft. 1½ in. Pipe removed.
Front	145 ft. West of the west line of Sassafras westwardly									155														
Front	70 ft. West of west line of Sassafras westwardly									75														
Front	539 ft. North of north line of Second eastwardly											41	6											14 ft. 4 in. taken up.
Queen	462 ft. East of east line of East Ave. northwardly									8	6													Hydrant Branch.
Queen	386 ft. East of east line of East Ave. eastwardly									73	6													
Fourth	9 ft. West of the east line of Poplar westwardly																	1069						
Fourth	8 ft. East of the east line of Plum northwardly											8												Hydrant Branch.
Fourth	5.6 ft. East of east line of Liberty northwardly											8	6											Hydrant Branch.
Eighth	509 ft. East of the east line of Payne northwardly									8														Hydrant Branch.
Eighth	21 ft. West of east line of Payne eastwardly											530												44.6 ft. 2 in. taken up.
Lake Road	1865 ft. West of east line of Cranberry westwardly											43												
Ninth	7 ft. West of the west line of Wayne eastwardly											41												

Ninth	21 ft. West of the east line of Penn'a Ave. eastwardly						123						
Ninth	102 ft. East of the east line of Penn'a Ave. northwardly						8 6						Hydrant Branch.
Ninth	159 ft. West of west line of State southwardly					190							
Eleventh	21 ft. West of west line of Cranberry eastwardly						21						
Eleventh	East line of German westwardly						60						In place of 60 ft. 4 in. taken up.
Twelfth	5 ft. West of the west line of German southwardly						5 10						Hydrant Branch.
Twelfth	5 ft. East of the east line of German westwardly								70				In place of 70 ft. 6 in. taken up.
Twelfth	271 ft. West of Cranberry southwardly						5 2						Hydrant Branch.
Twelfth	490 ft. West of Cranberry southwardly						131						
Thirteenth	East line of German westwardly						60						In place of 60 ft. 4 in. taken up.
Fourteenth	21 ft. West of east line of German eastwardly						21						In place of 21 ft. 4 in. taken up.
Fourteenth	330 ft. East of east line of French northwardly						9						Hydrant Branch.
Fifteenth	21 ft. West of the East line of German eastwardly						24 3						In place of 24.3 ft. 4 in. taken up.
Sixteenth	5 ft. West of west line of Plum northwardly						8						Hydrant Branch.
Sixteenth	162 ft. West of the west line of Plum eastwardly						201 6						
Huron	6.6 East of east line of Cherry westwardly						7 6						Hydrant Branch.
Nineteenth	21 ft. West of east line of Raspberry eastwardly						100						
Nineteenth	79 ft. East of east line of Raspberry northwardly						8 6						Hydrant Branch.

MAIN PIPE LAID IN 1903.

STREETS.	LOCATION.	SIZES.											REMARKS.
		¾ in.	1 in.	1½ in.	2 in.	4 in.	6 in.	8 in.	12 in.	20 in.	30 in.	42 in.	
		Ft. In.	Ft. In.	Ft. In.	Ft. In.	Ft. In.	Ft. In.	Ft. In.	Ft. In.	Ft. In.	Ft. In.	Ft. In.	
Twentieth	21 ft. West of east line of Perry westwardly						229						
Twentieth	190 ft. West of west line of Perry southwardly						8 6						Hydrant Branch.
Buffalo Road	12.4 East of east line of Penn'a Ave. northwardly												8.4 ft. 4 in. H. B. taken up
Buffalo Road	4 ft. West of west line of East Ave. northwardly												21.4 ft. 4 in. H. B. taken up
Twenty-third	21 ft. West of west line of East Ave. westwardly						344						
Twenty-first	21 ft. West of east line of East Ave. eastwardly						95						
Twenty-first	12.6 West of the west line of East Ave. northwardly						7 10						Hydrant Branch
Twenty-third	134 ft. West of the west line of French northwardly						8						Hydrant Branch
Twenty-third	305 ft. West of west line of East Ave. northwardly						9						Hydrant Branch
Twenty-third	338 ft. East of east line of Wayne eastwardly						274 4						
Twenty-third	338 ft. East of east line of Wayne northwardly												10 ft. 4 in. H. B. taken up
Twenty-third	5 ft. West of west line of Perry northwardly						9						Hydrant Branch.
Twenty-third	21 ft. West of east line of French westwardly						173						
Twenty-third	3.5 ft. East of the east line of Myrtle northwardly												10.3 ft. 4 in. H. B. taken up

Twenty-fourth	5.5 ft. West of west line of Holland northwardly						6 3						Hydrant Branch.
Twenty-fifth...	279.3 East of east line of Wayne northwardly												9.4 ft. 4 in. H. B. taken up
Twenty-fifth...	46 ft. East of east line of Perry eastwardly						215						
Twenty-fifth...	427 ft. East of east line of Wayne northwardly												8.6 ft. 4 in. H. B. taken up
Twenty-fifth...	5 ft. East of east line of Perry northwardly						8 6						Hydrant Branch.
Twenty-fifth...	261 ft. East of the east line of Perry northwardly						8 6						Hydrant Branch.
Twenty-Seventh	5 ft. East of east line of Parade northwardly						9						Hydrant Branch.
Twenty-Seventh	245 ft. West of west line of Wallace westwardly						264						
Twenty-Seventh	509.10 West of west line of Wallace westwardly						150						
Twenty-eighth	175 ft. East of the east line of Cascade northwardly						9						Hydrant Branch.
Twenty-eighth	227 ft. West of west line of Plum westwardly												9 ft. 6 in. H. B. taken up.
Twenty-eighth	191 ft. West of the west line of Plum westwardly						36						
Twenty-eighth	227 ft. West of west line of Plum northwardly						8 9						Hydrant Branch.
Twenty-eighth	227 ft. West of west line of Plum westwardly						258						
Twenty-eighth	228 ft. East of the east line of Holland northwardly					8							Hydrant Branch.
Twenty-ninth..	173 ft. West of west line of Cochran westwardly						122 8						
Twenty-ninth..	6 ft. East of east line of Chestnut northwardly						9 6						Hydrant Branch.
Twenty-ninth..	173 ft. West of west line of Cochran northwardly												9.6 ft. 4 in. H. B. taken up

MAIN PIPE LAID IN 1903.

STREETS.	LOCATION.	SIZES.											REMARKS.
		¾ in.	1 in.	1½ in.	2 in.	4 in.	6 in.	8 in.	12 in.	20 in.	30 in.	42 in.	
		Ft. In.	Ft. In.	Ft. In.	Ft. In.	Ft. In.	Ft. In.	Ft. In.	Ft. In.	Ft. In.	Ft. In.	Ft. In.	
Fulton	157.8 ft. North of north line of 10th eastwardly						9						Hydrant Branch.
Fulton	33 ft. South of north line of 10th northwardly						190 8						
Railroad	55.6 ft. South of south line of Buffalo Road northwardly												88 ft. 4 in. taken up.
Warfel Ave.	5 ft. North of north line of 21st eastwardly					9 4							Hydrant Branch
East Ave.	135 ft. South of south line of 26th eastwardly												10 ft. 4 in. H. B. taken up
East Ave	5 ft. South of south line of 36th eastwardly						9						Hydrant Branch.
East Ave.	500 ft. South of south line of 26th eastwardly					8 6							Hydrant Branch.
East Ave.	226.6 ft. South of south line of 26th southwardly						273 6						
Wayne	129 ft. North of north line of 10th northwardly						240						
Reed	39 ft. North of north line of 24th southwardly						166						
Reed	127.2 ft. South of south line of 11th southwardly						60						
Ash	85 ft. South of south line of 19th southwardly						227						
Ash	5 ft. South of south line of 19th eastwardly						9 8						Hydrant Branch
German	13 ft. South of north line of 11th southwardly												In place 1128 ft. 4 in. taken up.

German	165 ft. South of south line of 11th westwardly					26							
German	5 ft. North of north line of 17th eastwardly						5						Hydrant Branch.
German	5 ft. South of south line of 16th eastwardly						5						Hydrant Branch.
German	5 ft. North of north line of 14th eastwardly						6						Hydrant Branch.
German	5 ft. North of north line of 13th eastwardly						6 6						Hydrant Branch.
German	5.6 ft. North of north line of 12th eastwardly						7						Hydrant Branch.
German	5 ft. North of north line of 11th eastwardly						6 6						Hydrant Branch.
Holland	21 ft South of north line of 16th northwardly						35 6						35.6 ft. 4 in. taken up.
Holland	165 ft. South of south line of 11th eastwardly					9							
Orchard	199 ft. North of north line of Eliot southwardly						219						
Orchard	199 ft. North of north line of Eliot eastwardly												9 ft. 6 in. H. B. taken up.
Orchard	5 ft. North of north line of Eliot eastwardly						7						Hydrant Branch.
Sassafras	21 ft. South of south line of Short northwardly												150 ft. 4 in. taken up.
Sassafras	74.6 ft. North of north line of Front westwardly												658 ft. 4 in. taken up.
Sassafras	756 ft. North of north line of Front eastwardly						25						
Sassafras	21 ft. South of north line of Short northwardly						635 6						
Sassafras	257.3 ft. North of north line of Front westwardly						8 6						Hydrant Branch.
Sassafras	15.4 ft. South of south line of Front eastwardly						9						Hydrant Branch

MAIN PIPE LAID IN 1903.

STREETS.	LOCATION.	SIZES.											REMARKS.
		¾ in.	1 in.	1¼ in.	2 in.	4 in.	6 in.	8 in.	12 in.	20 in.	30 in.	42 in.	
		Ft. In.	Ft. In.	Ft. In.	Ft. In.	Ft. In.	Ft. In.	Ft. In.	Ft. In.	Ft. In.	Ft. In.	Ft. In.	
Sassafras	74 ft. North of north line of Front eastwardly						2						Hydrant Branch
Reservoir	428 ft. South of south line of 26th eastwardly						8 6						Hydrant Branch.
Reservoir	362 ft. South of south line of 26th southwardly						67						
Cherry	5 ft. North of north line of 14th eastwardly						10 6						Hydrant Branch.
Poplar	38.6 ft. South of south line of 4th eastwardly												3.6 ft. 6 in. H. B. taken up
Poplar	4 ft. North of north line of 4th southwardly						100 6						25 ft. 4 in. taken up from line of main northward.
Liberty	721 ft. South of south line of 26th southwardly						204						
Liberty	5 ft. North of north line of 25th southwardly						133						
Liberty	68 ft. South of south line of 29th eastwardly						9						Hydrant Branch.
Liberty	721 ft. South of south line of 26th eastwardly												9 ft. 4 in. H. B. taken up.
Liberty	21 ft. South of north line of 4th northwardly						24						24 ft. 4 in. taken up.
Liberty	112 ft. North of north line of 10th eastwardly												13 ft. 4 in. H. B. taken up.
Plum	21 ft. South of north line of 4th northwardly						24						
Plum	3 ft. North of north line of 4th northwardly					192							

Plum	21 ft. South of north line of 4th southwardly						42						42 ft. 4 in. taken up.
Plum	116 ft. North of north line of 16th eastwardly												9 ft. 6 in. H. B. taken up.
Plum	112.4 ft. North of north line of 16th eastwardly												8.8 ft. 4 in. H. B. taken up
Plum	424.3 ft. North of north line of 16th eastwardly						9						Hydrant Branch.
Cascade	118.4 ft. North of north line of 8th eastwardly						8 10						Hydrant Branch.
Cascade	4.8 ft. North of north line of 8th northwardly						114 4						
Raspberry	350 ft. South of south line of 12th eastwardly						9 8						Hydrant Branch.
Raspberry	228 ft. South of south line of 27th southwardly						36 7						
Raspberry	5 ft. North of north line of 28th eastwardly						10						Hydrant Branch.
Raspberry	228 ft. South of south line of 27th eastwardly												10 ft. 6 in. H. B. taken up
Raspberry	18 ft. South of north line of 18th southwardly						197						
Raspberry	15 ft. South of south line of 18th eastwardly												8.6 ft. 6 in. H. B. taken up
Raspberry	161 ft. South of south line of 18th southwardly						135						
Raspberry	165 ft. South of south line of 18th eastwardly						8 6						Hydrant Branch.
Cranberry	28 ft. south of north line of 10th souththwardly								823				
Cranberry	5 ft. North of north line of 11th eastwardly						8						
Cranberry	28 ft. South of north line of 10th northwardly	186 9					8						
Total		186 9				779 4	8178 10		893	1069			

SUMMARY OF PIPE LAID AND REMOVED IN 1903.

PIPE LAID.	Feet.	In.		Feet.	In.		Feet.	In.
¾-inch.....	186	9						
4 -inch.....	779	4						
6 -inch.....	8178	10						
12 -inch.....	893							
20 -inch.....	1069		Total,	10920	2			
PIPE REMOVED.								
1½-inch.....	350							
2 -inch.....	44	6						
4 -inch.....	2447	8						
6 -inch.....	124		Total,	2966	2	Net Increase,	7954	
						Or 1 mile	2674	
			Reported December 31, 1902.....			113 miles	3982	11
			Total to Dec. 31, 1903.....			115 miles.	1376	11

CONNECTIONS MADE IN 1903.

WARD.	¾ Inch.			1 Inch.			1½ Inch.			2 Inch.			3 Inch.			4 Inch.			6 Inch.			TOTAL.		
	No.	Feet.	In.	No.	Ft.	In.	No.	Ft.	In.	No.	Ft.	In.	No.	Ft.	In.	No.	Ft.	In.	No.	Ft.	In.	No.	Ft.	In.
First	23	393	10	.....	.....		1	3	6	.....	.....		.....	.....		.....	.....		.....	.....		24	397	4
Second	59	989	7	.....	.....		.....	.....		.....	.....		.....	.....		.....	.....		1	24	6	60	1014	1
Third	34	627	5	1	27		1	7		1	21	2	.....	.....		4	106	7	.....	.....		41	789	2
Fourth	48	849	10	.....	.....		1	2		.....	.....		.....	.....		1	8	6	1	8	2	51	868	6
Fifth	82	1372	5	.....	.....		.....	.....		1	24	6	.....	.....		.....	.....		.....	.....		83	1396	11
Sixth	49	878	3	.....	.....		.....	.....		1	7	6	1	6	2	1	28		1	7	6	53	927	5
Seventh	18	234	6	.....	.....		1	13	7	.....	.....		.....	.....		1	13	3	1	33		21	294	4
Total	313	5345	10	1	27		4	26	1	3	53	2	1	6	2	7	156	4	4	73	2	333	5687	9

CONNECTIONS TAKEN OUT IN 1903.

First	2	8	10	.....	.....		.....	.....		1	28	1	.....	.....		.....	.....		.....	.....		3	36	11
Second	3	33	6	.....	.....		.....	.....		.....	.....		.....	.....		.....	.....		.....	.....		3	33	6
Third	2	119		.....	.....		.....	.....		.....	.....		.....	.....		.....	.....		.....	.....		2	119	
Fourth	7	146		.....	.....		.....	.....		2	18		.....	.....		.....	.....		.....	.....		9	164	
Fifth	1	9	6	.....	.....		.....	.....		.....	.....		.....	.....		.....	.....		.....	.....		1	9	6
Sixth	2	36	5	.....	.....		.....	.....		.....	.....		.....	.....		.....	.....		.....	.....		2	36	5
Seventh	.....	.....		.....	.....		.....	.....		.....	.....		.....	.....		.....	.....		.....	.....		.....	.....	
Total	17	353	3	.....	.....		.....	.....		3	46	1	.....	.....		.....	.....		.....	.....		20	399	4
Net Increase	296	4992	7	1	27		4	26	1	.....	7	1	1	6	2	7	156	4	4	73	2	313	5288	5

CONNECTIONS RENEWED AND ALTERED IN 1903.

		Gain in Service Pipe. Ft.	In.	Loss in Service Pipe. Ft.	In.
First	3	18	3	.....	
Second	58	27	9	3	4
Third	15	61	6	30	6
Fourth	25	26	11	86	3
Fifth	.....	.....		.....	
Sixth	.....	.....		.....	
Total	101	134	5	120	1

		Ft.	In.	Ft.	In.
Increase in service pipe in 1903		5288	5		
Increase in service pipe, altering 101 con's		14	4		
Net increase in service pipe in 1903				5302	9
Service pipe in use December 31, 1902	47 Miles			2077	3
Service pips in use December 31, 1903	48 Miles			2100	

STATEMENT OF CONNECTIONS MADE TO DECEMBER 31, 1903.

WARD.	IN PAVED STREETS NOT IN USE.							IN USE.									TOTAL.									
	SIZE IN INCHES.							SIZE IN INCHES.									TOTAL.									
	¾	1	1½	2	4	6	Total.	¾	1	1¼	1½	2	2½	3	4	6	Total.	¾	1	1¼	1½	2	2½	3	4	6	Total.
First	201	1	.....	2	.....	.....	204	1574	21	.....	14	15	.....	.....	17	1	1642	1775	22	.....	14	17	.....	.....	17	1	1846
Second	249	1	1	.....	1	.....	252	2282	21	.....	28	19	.....	.....	43	17	2410	2531	22	.....	29	19	.....	.....	44	17	2662
Third	387	2	.....	1	.....	.....	390	2101	38	.....	26	35	1	.....	29	5	2235	2488	40	.....	26	36	1	.....	29	5	2625
Fourth	270	3	.....	.....	.....	.....	273	1770	32	3	27	27	.....	.....	15	3	1877	2040	35	3	27	27	.....	.....	15	3	2150
Fifth	134	.....	.....	.....	.....	.....	134	1518	12	1	12	14	.....	.....	6	.....	1563	1652	12	1	12	14	.....	.....	6	.....	1697
Sixth	102	3	.....	.....	2	.....	107	1551	20	.....	10	12	.....	1	8	1	1603	1653	23	.....	10	12	.....	1	10	1	1710
Seventh	.....	.....	.....	.....	.....	.....	.....	128	6	1	9	7	.....	1	5	5	162	128	6	1	9	7	.....	1	5	5	162
Total	1343	10	1	3	3	.....	1360	10924	150	5	126	129	1	2	123	32	11492	12267	160	5	127	132	1	2	126	32	12852

Total number reported December 31, 1902			12,520
Made on account street paving in 1903	52		
Made on application in 1903	280	332	
Removed and abandoned in 1903		20	
Net increase in 1903			312
Total number December 31, 1903			12,832

STATEMENT OF METERS DECEMBER 31, 1903.

KIND.	IN USE.									NOT IN USE.									TOTAL.								
	SIZE IN INCHES.								Total.	SIZE IN INCHES.								Total.	SIZE IN INCHES.								Total.
	⅝	¾	1	1½	2	3	4	6		⅝	¾	1	1½	2	3	4	6		⅝	¾	1	1½	2	3	4	6	
Crown	1	5	2	2	7	1	2		20					1				1	1	5	2	2	8	1	2		21
Columbia	5	13							18	10	3							13	15	16							31
Empire			2		3				5												2		3				5
Gem					1				1					2				2					3				3
Keystone		1	3	9	8				21				3					3		1	3	12	8				24
Lambert		1							1											1							1
Nash					1				1														1				1
Pitts. Disc		1	1						2											1	1						2
Thomson	3	6	3	4	4	1	4		25			1		1				2	3	6	4	4	5	1	4		27
Torrent								1	1																	1	1
Union	4	49	13	13	24	11	16	1	131	2	15	7	3	4	2	1		34	6	64	20	16	28	13	17	1	165
Worthington		1	6	4	1	1			13		3	3	1					7		4	9	5	1	1			20
Total	13	77	30	32	49	14	22	2	239	12	21	11	7	8	2	1		62	25	98	41	39	57	16	23	2	301

CROSSES PLACED IN 1903.

SIZE.	NUMBER.	
6 x 4-inch	1	
6 x 6-inch	7	
12 x 6-inch	4	
12 x 12-inch	1	
20 x 6-inch	2	
20 x 12-inch	2	30

REMOVED IN 1903.

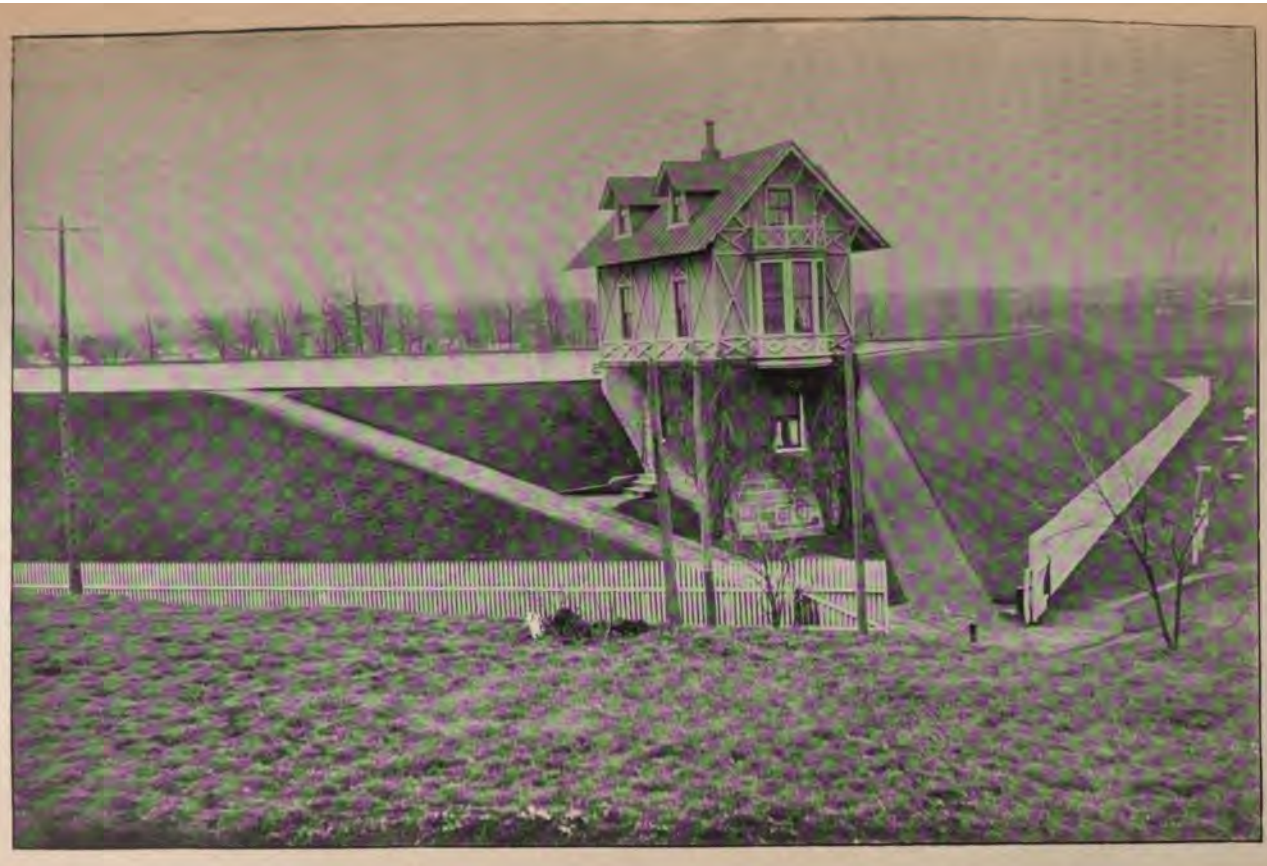
SIZE.	NUMBER.	
4 x 4-inch	5	
6 x 4-inch	1	6
Net Increase		24

TEES PLACED IN 1903.

SIZE.	NUMBER.	
6 x 4-inch	1	
6 x 4-inch	3	
6 x 6-inch	29	
8 x 8-inch	1	
12 x 6-inch	2	
20 x 6-inch	2	38

REMOVED IN 1903.

SIZE.	NUMBER.	
4 x 4-inch	8	
6 x 4-inch	4	
12 x 4-inch	1	
12 x 12-inch	1	14
Net Increase		24



Reservoir.

ANALYSES OF WATER BY DR. WM. P. MASON, TROY, N. Y.

RENSSELAER POLYTECHNIC INSTITUTE.
DEPARTMENT OF ANALYTIC CHEMISTRY. 1908.

LOCATION.	DATE. 1903.	RESULTS IN PARTS PER MILLION.															REMARKS.
		Taste.	Odor.	Color.	Sediment Quickly Falling.	Turbidity.	Free Ammonia.	Albuminoid Ammonia.	Chlorine.	Nitrogen in Nitrates.	Nitrogen in Nitrites.	Oxygen Required to Oxidize Organic Matter at 212° F.	Alkalinity. As Parts of C. A. C. O. 3.	Total Solids.	Bacteria (per Cubic Centimeter)	Bacillus Coli Communis.	
Lake Erie	Feb. 20	none	none	5.	none	25.	.039	.105	5.	.1	trace	1.7	97.5	147.	2490.	none	
New Intake		none	none	10.	none	8.	.053	.165	5.	.15	.002	3.	100.	154.	3880.	present	
Worthington Pump Well		none	none	10.	none	8.	.071	.198	5.	.15	.003	2.8	100.	154.	5770.	present	
Reservoir		none	none	10.	none	2.	.028	.126	5.	.125	.003	2.5	100.	150.	840.	none	
New Intake	Sep. 29	none	none	5.	none	2.	.197	.173	6.	.025	.003	2.75	100.	125.	273.	present	
Lake Erie		none	none	5.	none	15.	.068	.237	6.5	.0625	.002	1.4	100.	143.	57.	none	
Worthington Pump Well		none	none	5.	none	2.	.12	.22	6.	.025	.0045	2.7	100.	132.	280.	present	
Reservoir		none	none	5.	none	1.	.08	.28	6.	.025	trace	2.95	95.	131.	109.	none	
Lake Erie	Dec. 19.	none	none	10.	none	30.	.054	.155	7.5	.05	trace	1.8	90.	147.	482.	few present	*Taken at a point between 2500 and 3000 feet from shore on Z line of proposed new intake.
Worthington Pump Well		none	none	10.	none	2.	.145	.185	9.5	.1	.0005	1.85	100.	150.	290.	present	
Reservoir		none	none	10.	none	1.	.132	.168	9.5	.1	trace	3.	100.	161.	49.	present	
New Intake		none	none	10.	none	2.	.05	.176	9.5	.1	.0005	2.2	100.	162.	122.	present	

DRINKING FOUNTAINS FOR MAN, HORSE AND DOG.

Manufactured by J. L. Mott Iron Works, New York and Chicago.

STYLE.	DATE OF INSTALLATION.	WHERE LOCATED.
No. 1	October 26, 1894	South Park Row between State and French streets.
No. 2	June 13, 1894	Turnpike, Southwest corner State street.
No 2	June 16, 1894	Parade and Southeast corner Tenth street.
No. 2	July 3, 1895	State and Southeast corncr Eighteenth street.
No. 2	July 26, 1895	Parade, East Side, between Twelfth and Thirteenth street.
No. 2	October 2, 1895	State, East Side, between Third and Fourth streets.
No. 2	June 16, 1896	Chestnut and Southeast corner Eigteenth street.
No. 2	July 31, 1897	Peach and Southeast corner Twenty-sixth street.
No. 2	August 5, 1897	Eighth street, Northwest corner Cranberry street.
No. 2	August 14, 1900	Peach and Lakeside Park.
No. 3	August 22, 1900	Water Works Park.
No. 2	July 24, 1901	Buffalo road end of main.
No. 4	December 12, 1902	Center of Eliot avenue, west line of Waterford avenue.

STYLE NO. 1—Square base; ornamental top, with square sides; three places for man, one for horses.

STYLE NO. 2—Square base; oval sides, with plain top; one place for man, one for horses, two for dogs.

STYLE NO. 3—Flat base; oval sides, with plain top; one place for man.

STYLE NO. 4—Cast iron water pipe, 20-in. diameter, 7 ft. long and stands 4½ ft. above ground.

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38th ANNUAL REPORT

OF THE

COMMISSIONERS

OF

WATER WORKS

IN THE

CITY OF ERIE, PENNA.

TO THE

COUNCILS.

FOR THE

YEAR ENDING DECEMBER 31,

1904.

MAY 5 1905

38th

ANNUAL REPORT

OF THE

COMMISSIONERS OF

WATER WORKS,

ERIE,

COMPLIMENTS OF

COMMISSIONERS OF WATER WORKS

PLEASE EXCHANGE

S,

FOR THE

YEAR ENDING DECEMBER 31, 1904.

ASHBY PRINTING COMPANY,
ERIE, PA.

1905

38th

ANNUAL REPORT

OF THE

COMMISSIONERS OF

WATER WORKS,

IN THE CITY OF ERIE,

ERIE, PENN'A,

TO THE

COUNCILS,

FOR THE

YEAR ENDING DECEMBER 31, 1904.

ASHBY PRINTING COMPANY,
ERIE, PA.

COMMISSIONERS OF WATER WORKS,

IN THE CITY OF ERIE,

ERIE, PENN'A.

CLARK OLDS,
G. F. BREVILLIER.
WILLIS B. DURLIN.

OFFICERS.

CLARK OLDS,
ASSC. M. AM. SOC. C. E.
President.

GEORGE C. GENSHEIMER,
Secretary and Treasurer.

JOHN KOLB,
Assistant Secretary.

GEORGE H. FENKELL,
ASSC. M. AM. SOC. C. E.,
Civil Engineer for Intake Pipe Extension.

E. J. MORTON,
Ass't Civil Engineer for Intake Pipe Extension.

B. J. COATES,
Sup't of Water Works Pumping Station.

R. T. WALKER,
Superintendent of Street Work.

OFFICE, CITY HALL.

OFFICE HOURS. From 8:00 a. m. to 5:00 p. m.; on Mondays to 9:00 p. m.

REGULAR MEETINGS OF THE COMMISSIONERS. Every Saturday at 3:00 p. m., and the first of each month at 11 a. m., except when it occurs on Sunday, then the meeting is held the following day. Special meetings when necessary.

ANNUAL REPORT.

To the Councils of the City of Erie, Pa.:

GENTLEMEN:

We herewith submit the thirty-eighth annual report of this department for the year ending Dec. 31, 1904.

RECEIPTS.

Balance in City Treasury Dec. 31, 1903			$104,855.09
From Water Rents:			
Assessments	$119,569.55		
Meters	35,569.08		
Building Permits	1,038.32		
Special Permits	131.56		
		$156,308.51	
Plumbing and Material sold		3,873.80	
			160,182.31
Total			$265,037.40

DISBURSEMENTS.

Construction	$ 75,383.06		
Maintenance	19,551.45		
Operating	33,596.59		
Accounting	8,989.71		
Sundries	6.10		
Legal	110.00		
		$137,636.91	
Balance in City Treasury Dec. 31, 1904		127,400.49	
Total			$265,037.40

The increase in the receipts of the department for the year 1904 from water amounted to the sum of $7,241.97.

Total increase in the receipts of the department over the previous year, $8,943.13.

The amount of water pumped was 3,690,782,612 gallons, an increase of 375,447,094 gallons.

The daily average pumpage was 10,084,105 gallons. The daily average per capita pumpage based upon a population of 60,000, was 168 gallons.

The amount of water furnished by meter measurement to manufactories and other large consumers was 799,230,438 gallons, an increase of 36,385,744 gallons over the previous year.

Deducting the amount of water furnished by meter measurement from the total amount of water pumped gives the approximate amount of water furnished for domestic use, viz., 2,891,552,174 gallons, or a daily average of 7,900,415 gallons and a daily average per capita pumpage for domestic use of 131.6 gallons.

The daily average lift for the high service system was 275.53 feet, and for the low service system 235.83 feet.

Twenty-seven additional fire hydrants were placed, making the total number in use seven hundred and twenty-five. A large number of old fire hydrants were taken out and replaced with new ones.

We laid 13,539 feet of new mains, making the total length of mains a little over 117¾ miles.

The continued pollution of the water in the bay with the sewage from the city, renders the present source of supply undesirable and a possible menace to the health of the community.

In order to improve the quality of the water supply of the city, we have decided to get the best water available and have perfected plans to extend the intake pipe, to a point in Lake Erie one mile north of the Peninsula.

The General Government, by Act of Congress, has given to the Commissioners the right to occupy, for Water Works purposes, one hundred and seventy-five acres of land on the Peninsula, the same having been previously conveyed to the Commissioners by the State of Pennsylvania.

On the 9th day of July, 1904, the contract for extending the intake pipe from the present intake crib, in Big Bend, to a point in Lake Erie one mile north of the north shore of the

Peninsula, a distance of about ten thousand feet, was awarded to The T. A. Gillespie Company of Pittsburg, Pa., for the sum of $187,303.58.

The contract for five gate valves was awarded to the Coffin Valve Company of Boston, Mass., for the sum of $6,950.00, total amount of both contracts, $194,253.58.

The intake crib will be submerged in thirty-four feet of water, the top of which will be twenty-five feet below mean lake level, the pipe is riveted steel, sixty inches in diameter.

Twelve hundred and twenty-one feet of this pipe was placed in position before the close of navigation, and fifteen hundred feet more is on the dock at Erie ready for launching.

There has been paid upon the contracts $32,372.08, and there is on hand in cash (Dec. 31, 1904), $127,400.49, which is available for this work.

The contractors are required to complete the work by Dec. 31, 1906, but it is their expectation to complete it by the fall of 1905.

We expect to be able to pay the whole amount of the contracts as soon as the work is completed.

The decision of the Commissioners to abandon the bay and take the supply of water from Lake Erie is based upon the opinion of experts whose reports have heretofore been published and upon the comparative analyses of the lake and bay waters covering a period of sixteen years.

The following are the years and numbers of these analyses of which we have a record:

1889	1
1892	1
1896	1
1897	8
1898	11
1900	3
1901	4
1902	2
1903	3
1904	4
1905 (Feby.)	1
Total	39

These analyses have been made by four different chemists.

In all of the samples with one exception (viz., Feb. 8, 1901) the analyses have shown the lake water to be superior to the bay water in every particular except turbidity.

In thirty samples of water taken from Lake Erie, covering a period of eight years, the intestinal bacteria "Coli Communis" has been found in only two samples, viz., one taken through the ice on Feby. 8, 1901, at a point three quarters of a mile north of the Pier Head Light, and one taken Dec. 19, 1903, at a point about twenty-five hundred feet north of the Peninsula.

In thirty samples of water taken upon the same dates from the bay at the intake crib, the intestinal bacteria "Coli Communis" was found in every sample but one, viz., Oct. 1, 1901, in many of the samples of water they existed in colonies too numerous to count.

The turbidity of the lake water can be overcome by the construction of sedimentation basins or subsidence reservoirs in the Peninsula through which the water flows by gravitation.

It has been demonstrated by actual use that a continuous flow of water through a sedimentation basin of about fifteen feet per minute will remove over ninety per cent. of the turbidity.

The plans adopted contemplate the construction of one or more sedimentation basins on the Peninsula.

The Commissioners are honestly and earnestly endeavoring to promote the best interests of the city. We have given a large amount of time and labor to the study of the problems with which we are confronted and believe the execution of the plans which have been adopted will give to the city an ample supply of good and wholesome water, free from any sewage contamination.

We again request you to audit the accounts of the department, we have made this request annually for eight years only to have this important duty neglected each year.

Respectfully submitted,

CLARK OLDS,
G. F. BREVILLIER,
WILLIS B. DURLIN,
Commissioners.

BOR AND PRESQUE ISLE,
PENNSYLVANIA.

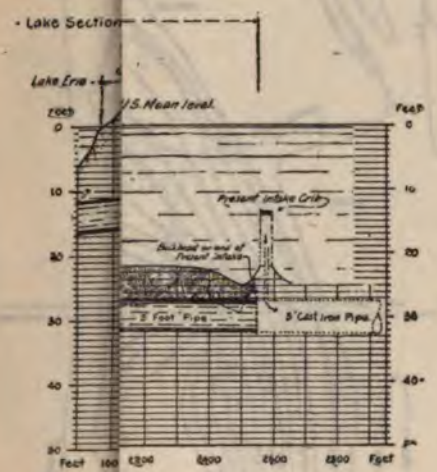
SSIONERS OF WATER WORKS
IN THE CITY OF ERIE.
ERIE PENN'A

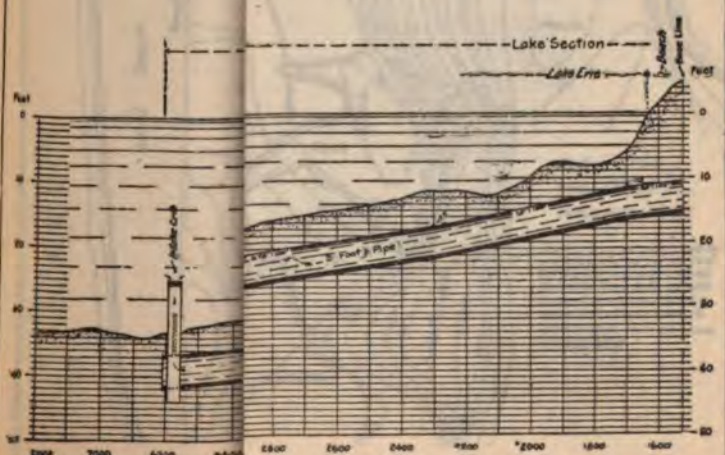
SCALE

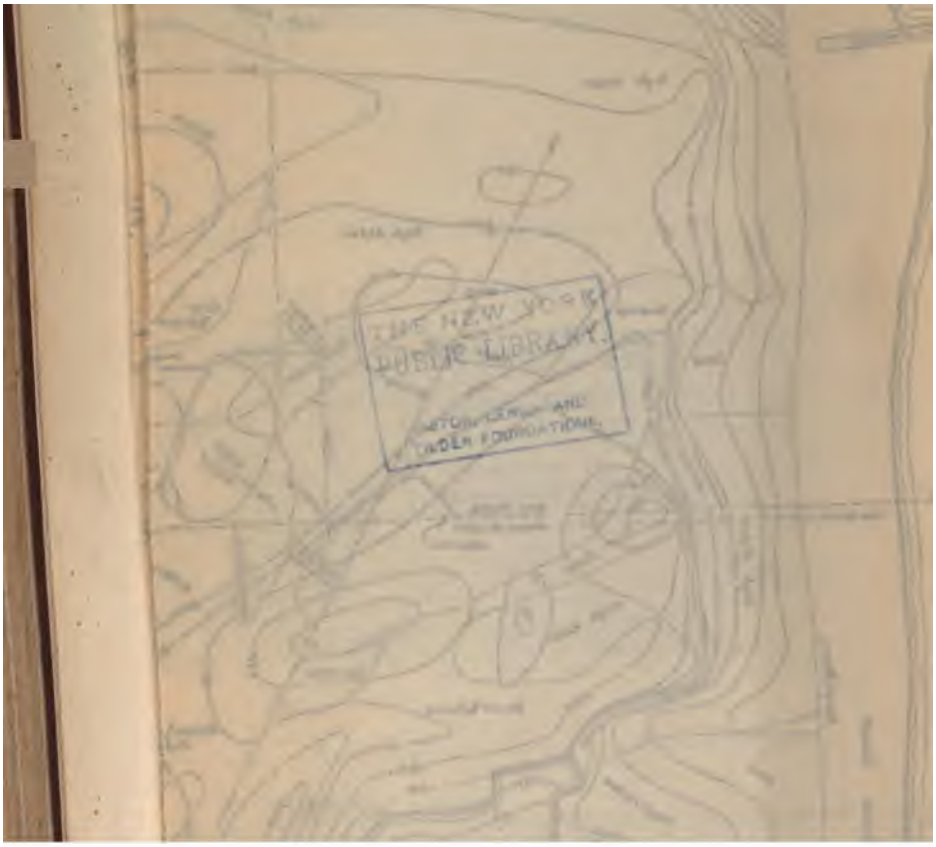
THE NEW YORK
PUBLIC LIBRARY
ASTOR, LENOX AND
TILDEN FOUNDATIONS

C OF
NTAKE PIPE.

WATER WORKS
ERIE







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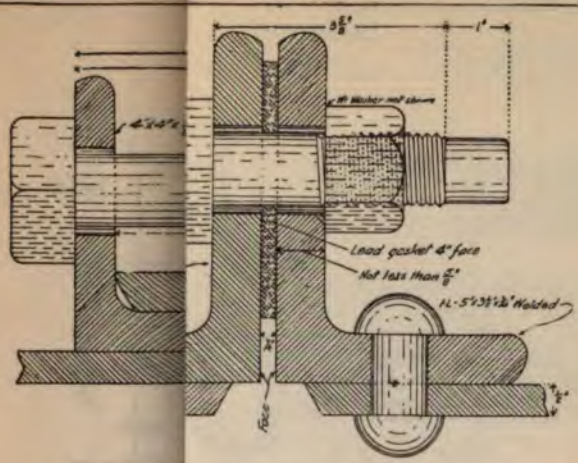
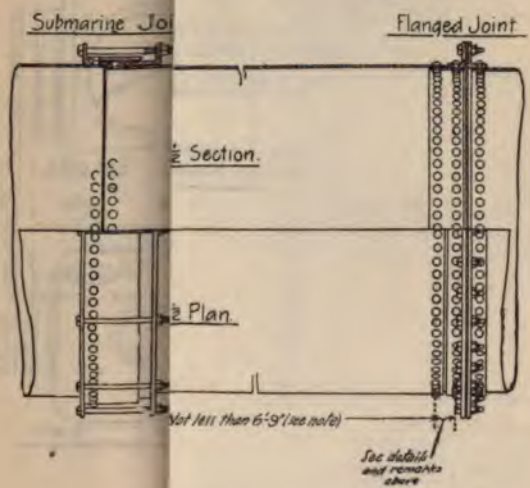
TILDEN FOUNDATIONS.





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CITY OF ERIE.
, PENN'A

1903-10-27
Geo. H. Pendell.

PUBLIC LIBRARY
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TILDEN FOUNDATIONS

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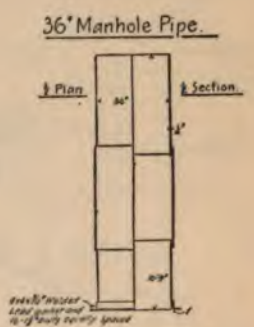

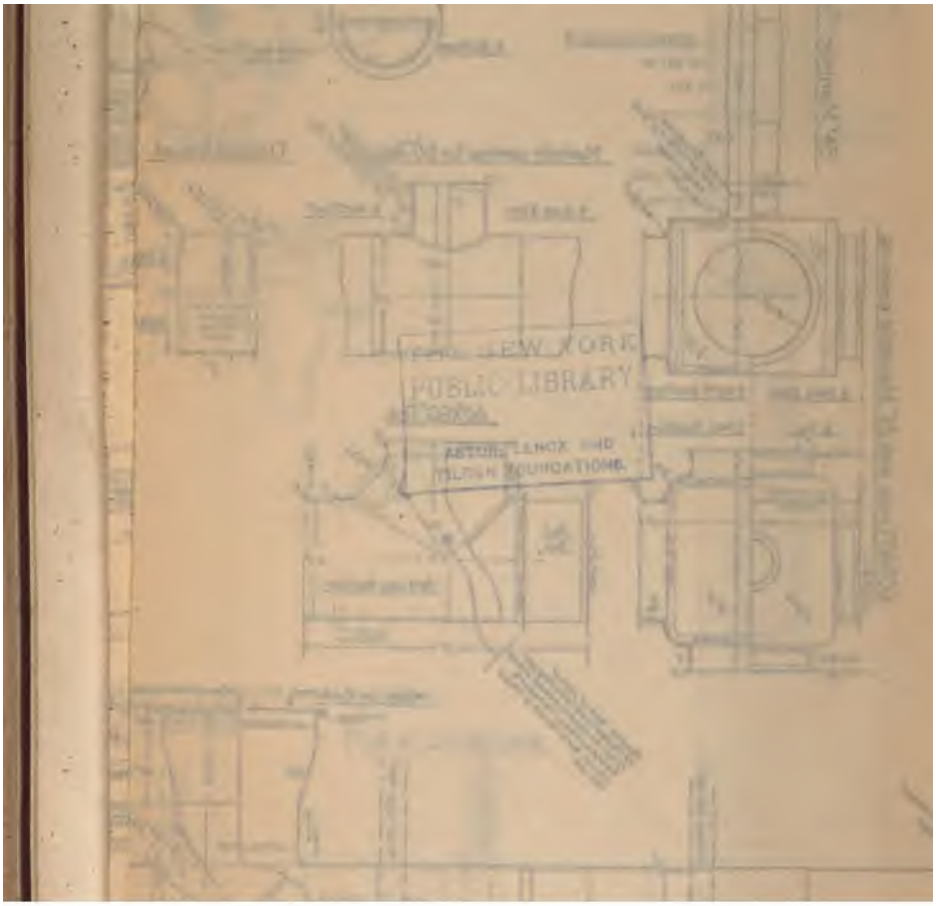

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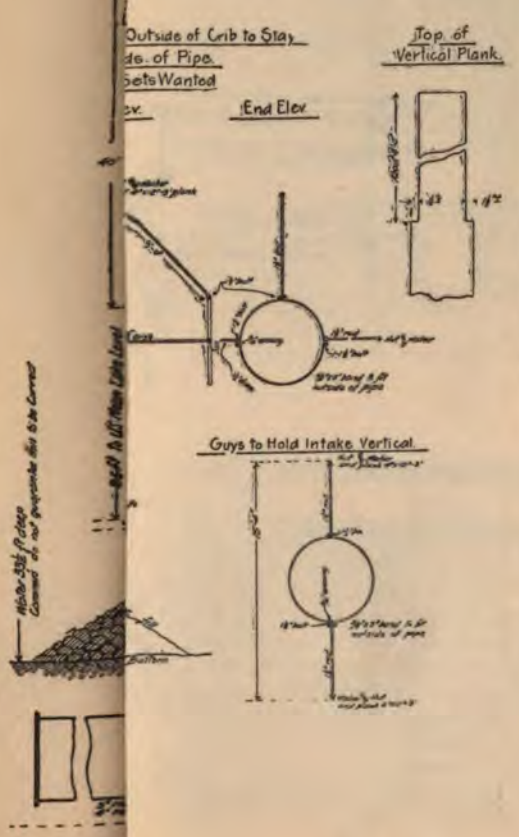
MERGED INTAKE CRIB
TO BE PLACED IN
LAKE ERIE.

OMMISSIONERS OF WATER WORKS
IN THE CITY OF ERIE.
ERIE, PENNA.

Scale 1/4" = 1' or 1" = 1'
Date 1909-8-18
Drawn by Geo. H. Fenkell



THE NEW YORK
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TILDEN FOUNDATIONS

mmissioners of Water Works, in the City of Erie, from Organization to December 31, 1904.

The Commissioners of Water Works, in the City of Erie, are appointed by the Court of Common Pleas of Erie County, Penn'a, for a term of three years, one member being named annually, in May.

1867	*W. L. Scott,	*Henry Rawle,	*Wm. W. Reed.
1868	*John C. Selden,	*Henry Rawle,	*Wm. W. Reed.
1869	*John C. Selden,	*Henry Rawle,	*Wm. W. Reed.
1870	*John C. Selden,	*Henry Rawle,	*Wm. W. Reed.
1871	*†John C. Selden,	*Henry Rawle,	*Wm. W. Reed.
1872	*Matthew R. Barr,	John Gensheimer,	*Wm. W. Reed.
1873	*Matthew R. Barr,	John Gensheimer,	*Wm. W. Reed.
1874	*Matthew R. Barr,	John Gensheimer,	*Wm. W. Reed.
1875	*Matthew R. Barr,	John Gensheimer,	*Wm. W. Reed.
1876	*Matthew R. Barr,	John Gensheimer,	*Wm. W. Reed.
1877	Michael Liebel,	John Gensheimer,	*Wm. W. Reed.
1878	Michael Liebel,	*J. M. Bryant,	*Wm. W. Reed.
1879	Michael Liebel,	*J. M. Bryant,	*G. W. F. Sherwin.
1880	Michael Liebel,	*J. M. Bryant,	*G. W. F. Sherwin.
1881	Michael Liebel,	Benjamin Whitman,	*G. W. F. Sherwin.
1882	Michael Liebel,	Benjamin Whitman,	*G. W. F. Sherwin.
1883	Michael Liebel,	Benjamin Whitman,	*G. W. F. Sherwin.
1884	Michael Liebel,	Benjamin Whitman,	*G. W. F. Sherwin.
1885	Michael Liebel,	Benjamin Whitman,	*Geo. W. Starr.
1886	C. Kessler,	Benjamin Whitman,	*Geo. W. Starr.
1887	C. Kessler,	C. J. Brown,	*Geo. W. Starr.
1888	C. Kessler,	C. J. Brown,	*Geo. W. Starr.
1889	C. Kessler,	C. J. Brown,	*Geo. W. Starr.
1890	C. Kessler,	C. J. Brown,	*Geo. W. Starr.
1891	C. Kessler,	C. J. Brown,	Wm. Hardwick.
1892	T. W. Shacklett,	C. J. Brown,	Wm. Hardwick.
1893	T. W. Shacklett,	C. J. Brown,	Wm. Hardwick.
1894	T. W. Shacklett,	C. J. Brown,	Wm. Hardwick.
1895	T. W. Shacklett,	‡C. J. Brown,	Wm. Hardwick.
1896	T. W. Shacklett,	Clark Olds,	Wm. Hardwick.
1897	T. W. Shacklett,	Clark Olds,	Wm. Hardwick.
1898	T. W. Shacklett,	Clark Olds,	Wm. Hardwick.
1899	T. W. Shacklett,	Clark Olds,	Wm. Hardwick.
1900	T. W. Shacklett,	Clark Olds,	G. F. Brevillier.
1901	Willis B. Durlin,	Clark Olds,	G. F. Brevillier.
1902	Willis B. Durlin,	Clark Olds,	G. F. Brevillier.
1903	Willis B. Durlin,	Clark Olds,	G. F. Brevillier.
1904	Willis B. Durlin,	Clark Olds,	G. F. Brevillier.

*Dead.

†Mr. Selden resigned before the expiration of his second term; Mr. Barr was substituted by the other Commissioners, and afterward appointed by the Court.

‡C. J. Brown resigned December 28, 1895, having been elected Treasurer of Erie County, Penn'a. Clark Olds was chosen by the other Commissioners for the unexpired term, on recommendation of the Court, January 2, 1896.

Officers of Water Works, from Organization to December 31, 1904.

	President.	Secretary and Treasurer.	Assistant Secretary.
1867	*Wm. W. Reed,	*Wm. Brewster,	.....
1868	*Wm. W. Reed,	*Wm. Brewster,	.....
1869	*Wm. W. Reed,	*J. C. Perkins,	.....
1870	*Wm. W. Reed,	*J. C. Perkins,	.....
1871	*Wm. W. Reed,	*J. C. Perkins,	.....
1872	*Wm. W. Reed,	*J. C. Perkins,	.....
1873	*Wm. W. Reed,	*J. C. Perkins,	.....
1874	*Wm. W. Reed,	*J. C. Perkins,	.....
1875	*Wm. W. Reed,	*J. C. Perkins,	.....
1876	*Wm. W. Reed,	*J. C. Perkins,	.....
1877	*Wm. W. Reed,	*J. C. Perkins,	.....
1878	*Wm. W. Reed,	*J. C. Perkins,	.....
1879	Michael Liebel,	*B. F. Sloan,	.....
1880	Michael Liebel,	*B. F. Sloan,	.....
1881	*G. W. F. Sherwin,	*B. F. Sloan,	.....
1882	*G. W. F. Sherwin,	*B. F. Sloan,	.....
1883	*G. W. F. Sherwin,	*B. F. Sloan,	.....
1884	Benjamin Whitman,	*B. F. Sloan,	Geo. C. Gensheimer.
1885	Benjamin Whitman,	*B. F. Sloan,	Geo. C. Gensheimer.
1886	Benjamin Whitman,	*B. F. Sloan,	Geo. C. Gensheimer.
1887	*Geo. W. Starr,	*B. F. Sloan,	Geo. C. Gensheimer.
1888	*Geo. W. Starr,	*B. F. Sloan,	Geo. C. Gensheimer.
1889	*Geo. W. Starr,	*B. F. Sloan,	Geo. C. Gensheimer.
1890	*Geo. W. Starr,	*B. F. Sloan,	Geo. C. Gensheimer.
1891	C. J. Brown,	*Wm. Himrod,	Geo. C. Gensheimer.
1892	C. J. Brown,	*Wm. Himrod,	Geo. C. Gensheimer.
1893	C. J. Brown,	*Wm. Himrod,	Geo. C. Gensheimer.
1894	Wm. Hardwick,	*Wm. Himrod,	Geo. C. Gensheimer.
1895	Wm. Hardwick,	*Wm. Himrod,	Geo. C. Gensheimer
1896	T. W. Shacklett,	*Wm. Himrod,	Geo. C. Gensheimer.
1897	T. W. Shacklett,	*Wm. Himrod,	Geo. C. Gensheimer.
1898	T. W. Shacklett,	*Wm. Himrod,	Geo. C. Gensheimer.
1899	Clark Olds,	*Wm. Himrod,	Geo. C. Gensheimer.
1900	Clark Olds,	*Wm. Himrod,	Geo. C. Gensheimer.
1901	Clark Olds,	*Wm. Himrod,	Geo. C. Gensheimer.
1902	Clark Olds,	Geo. C. Gensheimer,	John Kolb.
1903	Clark Olds,	Geo. C. Gensheimer,	John Kolb.
1904	Clark Olds,	Geo. C. Gensheimer,	John Kolb.

*Dead.

NOTE.—Mr. Brewster was elected June 14, 1867; resigned October 26, 1868, to take effect November 2, 1868; served 1 year, 4 months and 18 days. Mr. Perkins was elected October 26, 1868, to take effect November 2, 1868; resigned March 30, 1878; same accepted December 21, 1878, to take effect January 1, 1879; served 10 years, 1 month and 29 days. Mr. Sloan was elected December 21, 1878, to take effect January 1, 1879; continued in office to June 1, 1891; served 12 years and 5 months. Mr. Himrod was appointed Secretary May 23, 1891, to take effect June 1, 1891; served 11 years. Mr. Gensheimer was appointed Assistant Secretary January 26, 1884, and Secretary and Treasurer June 14, 1902. Mr. Kolb was appointed Assistant Secretary June 14, 1902.

Monthly Receipts from all Sources during the Year Ending December 31, 1904.

MONTH.	Assessment.	Meter.	Special	Building.	Plumbing.	Total.
Jan. ...	$27,310 83	$ 8,501 58	$10 32	$ 8 15	$ 22 96	$ 35,853 84
Feb.....	2,008 15	2 61	3 50	7 70	221 51	2,243 47
Mar.....	185 48	13 25	12 00	44 81	20 62	276 16
April....	26,602 31	9,546 37	16 75	81 50	46 13	36,293 06
May ...	2,583 61	.....	13 50	230 63	368 50	3,196 24
June. ..	481 91	35 19	15 00	51 06	396 66	979 82
July	26,686 11	8,518 79	15 25	110 50	47 39	35,378 04
Aug	3,216 81	37 88	12 00	188 81	155 60	3,611 10
Sept.....	246 40	167 41	5 11	85 69	389 11	893 72
Oct. . ..	27,549 85	8,710 00	6 25	106 65	258 22	36,630 97
Nov. ...	2,595 57	36 00	16 00	109 16	68 06	2,824 79
Dec. ...	102 52	.....	5 88	13 66	1,879 04	2,001 10
	$ 119,569 55	$ 35,569 08	$131 56	$ 1,038 32	$ 3,873 80	$ 160,182 31

Receipts from each Ward during the Year Ending December 31, 1904.

WARD.	Assessment.	Meter.	Special	Building.	Plumbing.	Total.
First. ...	$ 15,846 21	$ 3,808 91	$ 9 25	$ 70 82	$ 251 60	$ 19,986 79
Second.	24,480 25	15,293 38	18 57	109 16	1,546 09	41,447 45
Third....	28,245 89	8,015 31	51 75	552 16	943 41	37,808 52
Fourth. .	21,514 77	1,744 97	25 75	92 63	78 60	23,456 72
Fifth..	13,637 61	2,799 69	3 00	103 63	247 79	16,791 72
Sixth .	14,109 95	1,194 31	13 00	101 62	176 16	15,595 04
Seventh.	1,734 87	2,712 51	10 24	8 30	630 15	5,096 07
	$ 119,569 55	$ 35,569 08	$131 56	$ 1,038 32	$ 3,873 80	$ 160,182 31

Cash Account of Secretary and Treasurer of Commissioners of Water Works, in the City of Erie, for the Year Ending December 31, 1904.

MONTH.	Receipts.	Deposited with Treasurer City of Erie.	Balance in Office at Close of Business Each Month.
January	$ 35,853 84	$ 30,595 47	$ 5,258 37
February	2,243 47	7,410 34	91 50
March	276 16	196 50	171 16
April	36,293 06	31,915 47	4,548 75
May	3,196 24	7,573 82	171 17
June	979 82	992 42	158 57
July	35,378 04	31,027 18	4,509 43
August	3,611 10	8,056 71	63 82
September	893 72	840 98	116 56
October	36,630 97	32,086 39	4,661 14
November	2,824 79	7,379 95	105 98
December	2,001 10	2,107 08	.....
Total	$ 160,182 31	$ 160,182 31	.....

Statement of Account with Treasurer of the City of Erie, for the Year Ending December 31, 1904.

MONTH.	Received from Sec'y and Treas. Commissioners of Water Works in the City of Erie.	Paid on Warrants of Commissioners of Water Works in the City of Erie.	Monthly Balances.
Balance from 1903	$ 104,855 09	.....	.....
January	30,595 47	$ 5,111 90	$130,338 66
February	7,410 34	4,655 45	133,093 55
March	196 50	10,185 02	123,105 03
April	31,915 47	9,969 29	145,051 21
May	7,573 82	7,347 26	145,277 77
June	992 42	9,600 65	136,669 54
July	31,027 18	9,618 37	158,078 35
August	8,056 71	10,517 35	155,617 71
September	840 98	8,298 96	148,159 73
October	32,086 39	23,036 04	157,210 08
November	7,379 95	8,803 13	155,786 90
December	2,107 08	30,493 49	127,400 49
Total	$ 265,037 40	$ 137,636 91	$ 127,400 49

Amount Collected Annually for Water Furnished, Showing Total Collections, also the Increase and Decrease Each Year Since the Commencement of the Water Works.

Year Ending Dec. 31st.	RECEIVED.		ANNUAL.	
	Annually.	Totals.	Increase.	Decrease.
1869	$ 4,264 47	$.....	$.....	$.....
1870	9,237 30	13,501 77	4,972 83	.....
1871	18,138 08	31,639 85	8,900 78	.....
1872	21,652 68	53,292 53	3,514 60	.....
1873	25,560 40	78,852 93	3,907 72	.....
1874	27,938 90	106,791 83	2,378 50	.....
1875	29,639 38	136,431 21	1,700 48	.....
1876	31,048 76	167,479 97	1,409 38	.....
1877	32,276 57	199,756 54	1,227 81	.....
1878	29,636 01	229,392 55	.....	2,640 56
1879	33,343 20	262,735 75	3,707 19	.....
1880	37,385 00	300,120 75	4,041 80	.....
1881	40,385 87	340,506 62	3,000 87	.....
1882	43,818 73	384,325 35	3,432 86	.....
1883	48,269 89	432,595 24	4,451 16	.....
1884	51,852 78	484,448 02	3,582 89	.....
1885	53,550 35	537,998 37	1,697 57	.....
1886	58,725 00	596,723 37	5,174 65	.....
1887	67,121 92	663,845 29	8,396 92	.....
1888	73,197 03	737,042 32	6,075 11	.....
1889	81,110 68	818,153 00	7,913 65	.....
1890	87,279 96	905,432 96	6,169 28	.....
1891	93,891 55	999,324 51	6,611 59	.....
1892	105,527 03	1,104,851 54	11,635 48	.....
1893	111,247 43	1,216,098 97	5,720 40	.....
1894	111,821 94	1,327,920 91	574 51*	.....
1895	116,927 63	1,444,848 54	5,105 69	.....
1896	121,442 94	1,566,291 48	4,515 31	.....
1897	124,106 61	1,690,398 09	2,663 67	.....
1898	131,303 48	1,821,701 57	7,196 87	.....
1899	139,344 02	1,861,054 59	8,040 54	.....
1900	122,198 58	2,083,253 17	.....	17,145 44‡
1901	133,879 87	2,217,133 04	11,681 29	.....
1902	143,285 11	2,360,418 15	9,405 24	.....
1903	149,066 54	2,509,484 69	5,781 43	.....
1904	156,308 51	2,665,793 20	7,241 97	.....

*Meter rates for water changed from a sliding scale of 6 cents to 10 cents per 1,000 gallons, according to amount consumed, to a flat rate of 6 cents per 1,000 gallons, causing a reduction in receipts of $5,000.00.

‡Meter rates changed from six cents per one thousand (1,000) gallons to twenty (20) cents for each one thousand (1.000) gallons for the first twenty-five thousand (25,000) gallons, and four (4) cents for each one thousand (1,000) gallons consumed thereafter during each current quarter. Same took effect July 1, 1899. Family rates changed from $5.00 per annum to $4.00, taking effect January 1, 1900. These changes in rates account for the heavy decrease in the receipts for 1900.

STATEMENT OF WARRANTS ISSUED IN 1904.

January.

TO PAY VOUCHER.

Date.	No.	Of For	Amount.
2	13096	Wm. Roy, Brick Work	$ 3 75
	13097	Pay Roll—Street Work, Disbursed by W. C. Siegel, Clerk	180 22
	13098	Penna. Co., Freight on Stone	52 50
9	13099	Herald Printing & Publishing Co., Maps, etc	1 70
	13100	Erie Engine Works, Valves	1 95
	13101	Saltsman & Austin, Cement, etc	2 33
	13102	Erie Window Glass Co., Paint, Oil, etc	3 66
	13103	New York & Penna. Telephone & Telegraph Co., Rent of Telephone	4 04
	13104	Jarecki Mfg. Co., Brass and Labor	4 32
	13105	Erie Oil Co., Oil	4 39
	13106	C. Kessler, Soap, Brooms, etc	5 23
	13107	Times Publishing Co., Subscription	6 00
	13108	Dr. J. C. Elviage, Horse Medicine	7 25
	13109	H. C. Dunn, Brick	10 50
	13110	Samuel Hanna, Horse-Shoeing	10 90
	13111	E. J. Riblet, Cot, Table and Chairs	11 85
	13112	Kueffel & Esser Co., Tools	22 68
	13113	Jas. L. Firman, Teaming	25 25
	13114	Wm. Schade, Blacksmithing	27 15
	13115	Keystone Brass Co., Brass and Labor	36 65
	13116	Tompkins & Baker, Carpenter Work	38 35
	13117	Mutual Telephone Co., Rent of Telephones	48 00
	13118	Tompkins & Baker, On Contract for Pier Repairs	600 00

January—Continued.

TO PAY VOUCHER.

Date.	No.	Of For	Amount.
	13119	F. P. Church, Act. Ass't Secretary, Sundries	$ 20 25
	13120	Pay Roll—street work, Disbursed by W. C. Siegel, Clerk	199 16
	13121	Excelsior Boiler Compound Co., Boiler Compound	30 38
	13122	Tatham & Bros., Lead Pipe and Solder	252 34
16	13123	D. P. Murphy, Brick Work	22 50
	13124	Wm. P. Mason, Water Analysis	80 00
	13125	Pay Roll—street work, Disbursed by W. C. Siegel, Clerk	196 97
23	13126	F. P. Church, Act. Asst. Sec'y, Sundries	3 72
	13127	Pay Roll, Street Work, Disbursed by W. C. Siegel, Clerk	202 17
	13128	Tompkins & Baker, On Contract for Pier Repairs	500 00
30	13129	Mrs. Gertrude Beckman, Rent of Office, Acc't Intake No. 2 Ext	12 00
	13130	Harry Hogan, Boiler Repairs	15 75
	13131	D. P. Murphy, Boiler Repairs	40 50
	13132	Pay Roll—street work, Disbursed by W. C. Siegel, Clerk	228 81
	13133	Pay Roll—Office and Inspectors, Disbursed by F. P. Church, Act. Ass't Sec'y	1,063 33
	13134	Pay Roll—Engineers and Firemen, Disbursed by F. P. Church, Act. Ass't Sec'y	1,135 35
		Total	$5,111 90

February.

TO PAY VOUCHER.

Date.	No.	Of For	Amount.
6	13135	The Jeffery Mfg. Co., Coal Elevator Repairs	$ 3 39
	13136	Harry Hogan, Boiler Repairs	10 50
	13137	D. P. Murphy, Boiler Repairs	27 00
	13138	F. P. Church, Act. Ass't Sec'y, Sundries	42 77
	13139	Pay Roll—street work, Disbursed by W. C. Siegel, Clerk	256 49
	13140	Tompkins & Baker, On Contract for Pier	500 00
13	13141	J. G. Schlindwein Saddlery Co., Harness Repairs	1 10
	13142	Wm. F. Nick & Son, Films	1 50

February—Continued.

TO PAY VOUCHER.

Date.	No	Of For	Amount.
	13143	Erie Hard Wall Plaster Co., Plaster	$ 1 85
	13144	Held, Gorenflo & Co., Advertising	2 00
	13145	Municipal Engineering Co., Subscription	2 00
	13146	U. D. Sweigard, Sheet Metal and Labor	2 25
	13147	Engineering Record, Subscription	3 00
	13148	Pittsburg Meter Co., Meter Repairs	3 00
	13149	Times Publishing Co., Advertising	3 00
	13150	Municipal Journal Publishing Co., Subscription	3 00
	13151	Samuel Hanna, Horse-shoeing	3 30
	13152	Lyman Felheim, Lumber	4 34
	13153	Superior Stamp Co., Rubber Stamps	4 40
	13154	Gallagher Printing Co., Printing	4 50
	13155	Union Iron Works, Boiler Repairs	4 60
	13156	Chas. Gunnison & Co., Leather	4 94
	13157	John Reinhold, Jr., Paint, etc	4 95
	13158	Engineering News Publishing Co., Subscription	5 00
	13159	C. Kessler, Soap, Brooms, etc	5 03
	13160	J. H. Buys, Coal	6 25
	13161	Erie Window Glass Co., Glass, Paint, etc	6 32
	13162	Erie Machine Shop, Tools and Machine Work	6 84
	13163	Erie Oil Co., Oil	8 00
	13164	Dispatch-News Co., Advertising	8 50
	13165	John Balser, Sheet Metal and Labor	9 09
	13166	Presque Isle Pattern Works, Patterns	9 75
	13167	Dispatch Printing & Engraving Co., Stationery	9 85
	13168	Keystone Brass Co., Brass and Labor	13 44
	13169	R. J. Saltsman, Coal	14 63
	13170	Ashby Printing Co., Books, etc	15 35
	13171	Erie Engine Works, Boiler Repairs	17 74

February—Continued.

TO PAY VOUCHER.

Date.	No.	Of For	Amount.
	13172	E. J. Riblet, Shop Rent	$ 20 00
	13173	W. H. Gingrich, Oats	23 00
	13174	Warner Bros., Linoleum and Mats	23 50
	13175	Lake City Engineering Co., Castings	23 87
	13176	F. P. Church, Act. Ass't Sec'y, Sundries	28 53
	13177	Erie Mfg. & Supply Co., Packing	29 25
	13178	Herald Printing & Publishing Co., Advertising	36 15
	13179	A. S. Pinney, Hardware	43 19
	13180	Saltsman & Austin, Cement	43 90
	13181	Mehl & Sapper, Hardware	68 40
	13182	Union Oil Works, Oil	109 78
	13183	Hays Mfg. Co., Fittings	167 96
	13184	F. E. Fitts Mfg. Co., Waste	515 62
	13185	The W. L. Scott Co., Coal	1,591 43
	13186	Pay Roll—street work, Disbursed by W. C. Siegel, Clerk	225 40
	13187	Harry Hogan, Boiler Repairs	3 00
	13188	Harry Hogan, Boiler Repairs	9 63
	13189	D. P. Murphy, Boiler Repairs	27 00
20	13190	F. P. Church, Act. Ass't Sec'y, Sundries	5 64
	13191	Harry Hogan, Boiler Repairs	10 50
	13192	D. P. Murphy, Boiler Repairs	27 00
	13193	Pay Roll—street work, Disbursed by W. C. Siegel, Clerk	262 89
27	13194	Harry Hogan, Boiler Repairs	10 50
	13195	D. P. Murphy, Boiler Repairs	27 00
	13196	Excelsior Boiler Compound Co., Boiler Compound	34 30
	13197	Pay Roll—street work, Disbursed by W. C. Siegel, Clerk	258 34
			$ 4,655 45

March.

TO PAY VOUCHER.

Date	No.	Of For	Amount.
1	13198	Mrs. Gertrude Beckman, Rent of Office, acc't Intake No. 2 Ext	$ 12 00
	13199	Clark Olds, Services as Commissioner 2 months	150 00
	13200	G. F. Brevillier, Services as Commissioner 2 months	150 00
	13201	Willis B. Durlin, Services as Commissioner 2 months	150 00
	13202	Pay Roll—(Pumping Station,) Disbursed by F. P. Church, Act. Ass't Sec'y	1,133 50
	13203	Pay Roll—Office and Inspectors, Disbursed by F. P. Church, Act. Ass't Sec'y	1,063 34
5	13204	Harry Hogan, Boiler Repairs	10 50
	13205	F. P. Church, Act. Ass't Sec'y, Sundries	10 84
	13206	D. P. Murphy, Boiler Repairs	27 00
	13207	Tompkins & Baker, On Contract for Pier	50 00
	13208	Pay Roll—Street Work, Disbursed by W. C. Siegel, Clerk	237 96
12	13209	Plumbers' Trade Journal, Subscription	1 00
	13210	South Erie Iron Works, Stove Repairs	1 20
	13211	Emil Streuber, Tallow	1 44
	13212	Dunbar Bros., Tools	2 00
	13213	Lyman Felheim, Lumber	2 46
	13214	W. E. Hayes & Co., Lamp	2 50
	13215	Pittsburg Meter Co., Meter Repairs	3 00
	13216	Paul Altenberg, Painting	3 00
	13217	Constable Bros. Co., Lumber	3 40
	13218	Union Iron Works, Boiler Repairs	4 10
	13219	Jarecki Mfg. Co., Fittings	4 91
	13220	H. C. Gross, Wood	5 00
	13221	Erie Window Glass Co., Paint, Oil and Varnish	5 98
	13222	C. Kessler, Brooms, Soap, etc	6 98
	13223	J. J O'Brien, Maps	8 20
	13224	Hays Mfg. Co., Fittings	8 58
	13225	Samuel Hanna, Horse-Shoeing	8 75
	13226	John Reinhold, Jr., Metal Polish	9 00

March—Continued.

TO PAY VOUCHER.

Date.	No.	Of For	Amount.
	13227	E. Dietzgen Co., Engineer's Supplies	$ 9 46
	13228	Ashby Printing Co., Books and Printing	12 60
	13229	Keystone Electric Co., Electric Light Repairs	16 34
	13230	Herald Printing & Publishing Co., Maps, Bill File and Stationery	17 75
	13231	E. J. Riblet, Shop Rent	20 00
	13232	C. W. Geibel, Connection Repairs	21 00
	13233	Electric Equipment Co., Electric Light Supplies	24 90
	13234	J. D. Johnson & Co., Lumber	26 50
	13235	Cascade Foundry Co., Castings	36 00
	13236	Wm. Schade, Blacksmithing	42 42
	13237	Keystone Brass Co., Brass and Labor	49 20
	13238	Erie Mfg. & Supply Co., Gaskets	52 66
	13239	Erie Company, Electric Light Repairs	56 86
	13240	A. S. Pinney, Hardware	58 83
	13241	Saltsman & Austin, Lime, Cement, Fire Clay and Brick	71 35
	13242	Erie Oil Co., Oil	106 07
	13243	Erie Engine Works, Boiler Repairs	108 00
	13244	Mehl & Sapper, Hardware	135 47
	13245	Erie City Iron Works, Boiler Repairs	175 50
	13246	R. D. Wood & Co., Fire Hydrants	648 00
	13247	J. H. Schafer, On Contract for Boat House	800 00
	13248	W. L. Scott Co., Coal	1,514 02
	13249	Pay Roll—Street Work, Disbursed by W. C. Siegel, Clerk	309 83
	13250	F. P. Church, Act. Ass't Sec'y, Sundries	18 28
	13251	Harry Hogan, Boiler Repairs	10 50
	13252	D. P. Murphy Boiler Repairs	27 00
19	13253	F. P. Church, Act. Ass't Sec'y, Sundries	6 35
	13254	Harry Hogan, Boiler Repairs	7 88
	13255	D. P. Murphy, Boiler Repairs	27 00

March—Continued.

TO PAY VOUCHER.

Date.	No.	Of For	Amount.
	13256	Pay Roll—Street Work, Disbursed by W. C. Siegel, Clerk	$ 241 33
	13257	National Lead Co., Lead Pipe,	10 78
26	13258	D. P. Murphy, Boiler Repairs	18 00
	13259	Pay Roll—Street Work, Disbursed by W. C. Siegel, Clerk	226 22
31	13260	Pay Roll—Office and Inspectors, Disbursed by F. P. Church, Act. Ass't Sec'y	1,063 33
	13261	Pay Roll—Pumping Station, Disbursed by F. P. Church, Act. Ass't Sec'y	1,138 95
		Total	$ 10,185 02

April.

TO PAY VOUCHER.

Date.	No.	Of For	Amount.
2	13262	F. P. Church, Act. Ass't Sec'y, Sundries	$ 3 04
	13263	Mrs. Gertrude Beckman, Rent of Office, acc't Intake No. 2 Ext	12 00
	13264	Pay Roll—Street Work, Disbursed by W. C. Siegel, Clerk	273 27
9	13265	Erie Window Glass Co., Paint and Oil	1 00
	13266	H. H Gloth, Connection Repairs	1 80
	13267	Lovell Mfg. Co., Tins	1 82
	13268	F. P. Koehler, Connection Repairs	1 85
	13269	L. Sedelmeyer, Connection Repairs	2 00
	13270	G. L. Siegel, Oil; Meal and Salt	2 20
	13271	U. D. Sweigard, Roof Repairs	2 20
	13272	Lyman Felheim, Lumber	2 47
	13273	John P. Dugan, Carriage	3 00
	13274	Frank Kern, Connection Repairs	3 00
	13275	Lake City Machine Shop, Repairs to Tools	3 15
	13276	Thomson Meter Co., Meter Repairs	3 60
	13277	N. Y. & Penn'a Telephone & Telegraph Co., Rent of Telephone	4 04
	13278	Wm. F. Nick & Son, Paint, Acid and Films	4 15
	13279	Hollands Mfg. Co., Tools	5 00

April—Continued.

TO PAY VOUCHER.

Date.	No.	Of For	Amount.
	13280	A. H. Saunders, Rubber Stamps	$ 5 30
	13281	Erie Mfg. & Supply Co., Gauge Glasses and Washers	5 36
	13282	J. D. Johnson & Co., Lumber	5 50
	13283	G. J. Gebhardt, Coal	6 00
	13284	Murphy Bros., Repairing Torches	6 00
	13285	C. Kessler, Soap and Brooms	7 21
	13286	H. Beckman & Sons, Paint and Rope	7 48
	13287	Keystone Carriage Co., Wagon Repairs	7 50
	13288	Hays Mfg. Co., Fittings	9 76
	13289	Sam'l Hanna, Horse-Shoeing	10 20
	13290	John Reinhold, Jr., Paint and Brushes	10 36
	13291	Mrs. J. B. Johannesen and Mrs. W. Bauman, Connection Repairs	11 87
	13292	John M. Lynch, Boiler Inspection	12 00
	13293	R. J. Saltsman, Coal	13 00
	13294	J. Jacobs Rope and Oil Skins	13 20
	13295	Mehl & Sapper, Hardware	19 39
	13296	E. J. Riblet, Shop Rent	20 00
	13297	A. S. Pinney, Hardware	22 98
	13298	W. H. Gingrich, Oats	26 50
	13299	Erie City Iron Works, Boiler Repairs	29 40
	13300	Cascade Foundry Co., Castings	34 35
	13301	Jeffery Mfg. Co., Coal Elevator Repairs	35 31
	13302	The Fairbanks Co., Check Valves	38 30
	13303	Saltsman & Austin, Cement, Fire Clay and Brick	39 90
	13304	U. S. Cast Iron Pipe & Foundry Co., Pipe	44 80
	13305	Mutual Telephone Co., Rent of Telephones	48 00
	13306	The Kinnear Mfg. Co., Steel Roller Door	65 30
	13307	Union Oil Works, Oil	111 51
	13308	Keystone Brass Co., Brass and Labor	111 77

April—Continued.

TO PAY VOUCHER.

Date.	No.	Of For	Amount.
	13309	H. R. Worthington, Engine Repairs	$ 438 70
	13310	The W. L. Scott Co., Coal	1,068 45
	13311	Union Iron Works, Repairs to Boilers	1,598 02
	13312	Pay Roll—Street Work, Disbursed by W. C. Siegel, Clerk	500 02
	13313	John Kolb, Asst. Sec'y, Sundries	6 83
16	13314	John Kolb, Ass't Sec'y, Sundries	12 73
	13315	Pay Roll—Street Work, Disbursed by W. C. Siegel, Clerk	520 65
	13316	J. H. Schafer, Balance on contract for Boat House	672 00
	13317	Hennesy Mfg. Co., Washers	16 91
	13318	American Water Works Ass'n, Annual Dues	3 00
	13319	Excelsior Boiler Compound Co., Boiler Compound	34 30
	13320	Pay Roll—Street Work, Disbursed by W. C. Siegel, Clerk	515 07
	13321	W. C. Kramer, Recording Patents and Maps	4 00
	13322	Fred Nick, Rent of Office, acc't Intake No. 2 Ext.	12 00
	13323	John Kolb, Ass't Sec'y, Sundries	47 19
	13324	Tompkins & Baker, On Contract Pier Repairs	100 00
	13325	Clark Olds, Services as Commissioner, 2 months	150 00
	13326	G. F. Brevillier, Services as Commissioner, 2 months	150 00
	13327	Willis B. Durlin, Services as Commissioner, 2 months	150 00
	13328	Pay Roll—Street Work, Disbursed by W. C. Siegel, Clerk	555 02
	13329	Pay Roll—Office and Inspectors, Disbursed by John Kolb, Ass't Sec'y	1,068 33
	13330	Pay Roll—Pumping Station, Disbursed by John Kolb, Ass't Sec'y	1,133 60
	13331	Lake Shore & Michigan Southern R. R., Freight on Pipe and Flues	104 53
		Total	$ 9,969 29

May.

TO PAY VOUCHER.

Date.	No.	Of For	Amount.
7	13332	John Kolb, Ass't Sec'y, Sundries	$ 20 12
	13333	Pay Roll—Street Work, Disbursed by W. C. Siegel, Clerk	563 72
14	13334	Gus J. Miller, Harness Oil	1 00
	13335	John Porsch, Plumber's Clay	1 00
	13336	Keystone Electric Co., Repairs to Electric Light Plant	1 20
	13337	U. D. Sweigard, Repairs to Tin Pump	1 50
	13338	Geo. F. Ott, Connection Repairs	2 50
	13339	John Reinhold, Jr., Oil and Paper	3 00
	13340	E. Dietzgen Co., Engineer's Supplies	3 50
	13341	Constable Bros. Co., Lumber	3 89
	13342	Herald Printing & Publishing Co., Stationery	4 05
	13343	Cascade Foundry Co., Castings	4 40
	13344	Sam'l Hanna, Horse-Shoeing	4 80
	13345	H. C. Gross, Wood	5 00
	13346	R. J. Saltsman, Coal	5 75
	13347	Saltsman & Austin, Lime, Cement, etc	6 74
	13348	D. Schlosser & Sons, Meter Box and Stakes	8 15
	13349	Hollands Mfg. Co., Tools	8 55
	13350	Electric Equipment Co., Repairs to Electric Light Plant	10 05
	13351	Erie Window Glass Co., Glass, Paint, etc	11 22
	13352	John M. Lynch, Boiler Inspection	12 00
	13353	Keystone Brass Co., Brass and Labor	12 24
	13354	J. D. Johnson & Co., Lumber	12 56
	13355	Standard Brick Co., Brick	12 60
	13356	Franklin Coal Co., Barn Rent	20 00
	13357	E. J. Riblet, Shop Rent	20 00
	13358	Ashby Printing Co., Stationery	23 70
	13359	Specialty Paint Co., Paint	25 97
	13360	W. H. Gingrich, Oats	26 00

May—Continued.

TO PAY VOUCHER.

Date.	No.	Of For	Amount.
	13361	Wm. Schade, Blacksmithing	$ 28 29
	13362	J. H. Walker, Stationery	35 82
	13363	Wm. P. Mason, Analyses of Water	40 00
	13364	Erie Mfg. & Supply Co., Packing, Valve, etc	53 39
	13365	A. S. Pinney, Hardware	62 17
	13366	Walker Foundry Co., Castings	68 30
	13367	Mehl & Sapper, Hardware	73 47
	13368	Jas. L. Firman, Teaming	89 56
	13369	Union Water Meter Co., Meters	109 75
	13370	Erie Oil Co., Oil and Grease	117 42
	13371	Union Iron Works, Boiler Repairs	372 88
	13372	Erie Company, Repairs to Electric Light Plant	432 71
	13373	Hays Mfg. Co., Curb Boxes and Fittings	550 27
	13374	U. S. Cast Iron Pipe & Foundry Co., Pipe	2,321 09
	13375	John Kolb, Ass't Sec'y, Sundries	13 22
	13376	Pay Roll—Street Work, Disbursed by W. C. Siegel, Clerk	597 47
21	13377	W. A. Tompkins, Repairs to Boat	30 00
	13378	Wm. Roy, Painting	36 25
	13379	Pay Roll—Street Work, Disbursed by W. C. Siegel, Clerk	547 28
28	13380	Mrs. Eva McCoy, Rent of Office, acc't Intake No. 2 Ext	12 00
	13381	W. A. Tompkins, Repairs to Boat	25 00
	13382	John Kolb, Ass't Sec'y, Sundries	62 37
	13383	Tompkins & Baker, Balance on Contract for Pier Repairs	217 03
	13384	Pay Roll—Street Work, Disbursed by W. C. Siegel, Clerk	616 31
		Total	$ 7,347 26

June.

TO PAY VOUCHER.

Date.	No.	Of For	Amount.
1	13385	Pay Roll—Office, Inspectors and Pumping Station, Disbursed by John Kolb, Ass't Sec'y	$ 2,200 09
4	13386	E. G. Saltman, Engineer's Supplies	8 68
	13387	Stricker Printing Co., Envelopes	10 00
	13388	John Kolb, Ass't Sec'y, Sundries	27 43
	13389	Excelsior Boiler Compound Co., Boiler Compound	34 30
	13390	Pay Roll—Street Work, Disbursed by W. C. Siegel, Clerk	537 84
	13391	Hoyt Metal Co., Pig Lead	1,365 50
11	13392	Chas. M. Kern, Connection Repairs	1 00
	13393	R. J. Saltsman & Co., Harness Repairs	1 25
	13394	Johannessen Mfg. Co., Repairs to Office Furniture	2 00
	13395	National Meter Co., Meter Repairs	2 00
	13396	H. F. Watson Co., Felt Paper	2 02
	13397	J. H. Walker, Stationery	2 10
	13398	Union Ice Co. Ice	2 25
	13399	Erie Company, Coke	2 60
	13400	Sunday Messenger Pub. Co., Advertising	2 75
	13401	Erie Printing Co., Advertising	3 50
	13402	Erie Gas Co., Coke	3 82
	13403	Hollands Mfg. Co., Tools	4 05
	13404	Warner Bros., Matting and Binding	4 05
	13405	Palace Hardware House, Water Filter	4 25
	13406	Dispatch-News Co., Advertising	4 50
	13407	Erie Post Pub. Co., Advertising	4 60
	13408	Times Publishing Co., Advertising	4 60
	13409	H. C. Gross, Wood	5 00
	13410	Erie Engine Works, Engine Repairs	6 95
	13411	Erie Oil Co., Oil	7 00
	13412	Brown & Thomas, Steel Rails	8 40
	13413	Saltsman & Austin, Cement	9 19

June—Continued.

TO PAY VOUCHER.

Date.	No.	Of For	Amount.
	13414	Leader Printing Co., Advertising	$ 9 72
	13415	U. D. Sweigard, Sheet Metal and Labor	9 77
	13416	Toledo Newspaper Co., Advertising	11 00
	13417	A. S. Pinney, Hardware	11 63
	13418	Lyman Felheim, Lumber	11 41
	13419	Samuel Hanna, Horse-Shoeing	13 75
	13420	H. C. Dunn, Brick	16 10
	13421	Keuffel & Esser Co., Engineer's Supplies	28 80
	13422	Engineering News Publishing Co., Advertising	32 40
	13423	Engineering Record, Advertising	34 20
	13424	Taper Sleeve Pulley Works, Pulleys, Blocks and Castings	35 54
	13425	Jas. L. Firman, Teaming	45 34
	13426	John Reinhold, Jr., Polish, Paint, Oil, etc	49 49
	13427	Keystone Brass Co., Brass and Labor	58 20
	13428	Erie Mfg. & Supply Co., Tools, etc	64 89
	13429	Mehl & Sapper, Hardware	72 72
	13430	Walker Foundry Co., Castings	103 42
	13431	V. D. Eichenlaub, Drains to Meter Boxes	113 97
	13432	Union Oil Works, Oil	122 19
	13433	W. L. Scott Co., Coal	169 68
	13434	Hays Mfg. Co., Hydrants, Fittings, etc	233 75
	13435	Ashby Printing Co., Bills, Books and Stationery	273 90
	13436	R. D. Wood & Co., Valves	279 00
	13437	Dispatch Printing & Engraving Co., Annual Reports	451 25
	13438	U. S. Cast Iron Pipe & Foundry Co., Pipe	922 43
	13439	John Kolb, Ass't Sec'y, Sundries	12 39
	13440	Pay Roll—Street Work, Disbursed by W. C. Siegel, Clerk	670 76
	13441	E. J. Riblet, Shop Rent	20 00
	13442	W. A. Tompkins, Cabin on Boat	30 00

June—Continued.

TO PAY VOUCHER.

Date.	No.	Of For	Amount.
18	13443	John Kolb, Ass't Sec'y, Sundries	$ 79 92
	13444	Pay Roll—Street Work, Disbursed by W. C. Siegel, Clerk	624 41
25	13445	Mrs. Orilla Bloch, Washing Towels, 6 months	6 00
	13446	John Kolb, Ass't Sec'y, Sundries	6 68
	13447	E. G. Saltman, Engineer's Supplies	7 67
	13448	W. A. Tompkins, Cabin to Boat	50 00
	13449	Wm. Roy, Painting	27 50
	13450	Pay Roll—Street Work, Disbursed by W. C. Siegel, Clerk	619 05
		Total	$ 9,600 65

July.

TO PAY VOUCHER.

Date.	No.	Of For	Amount.
1	13451	Mrs. Eva McCoy, Rent of Office, acc't Intake No. 2 Ext.	$ 12 00
	13452	Clark Olds, Services as Commissioner, 2 months	150 00
	13453	G. F. Brevillier, Services as Commissioner, 2 months	150 00
	13454	Willis B. Durlin, Services as Commissioner, 2 months	150 00
	13455	Pay Roll—Office and Pumping Station, Disbursed by John Kolb, Ass't Sec'y	2,235 83
2	13456	Pay Roll—Street Work, Disbursed by W. C. Siegel, Clerk	642 67
	13457	John Kolb, Ass't Sec'y, Sundries	58 39
	13458	W. A. Tompkins, Repairs to Boat	25 00
9	13459	Herald Printing & Publishing Co., Stationery	1 35
	13460	R. J. Saltsman & Co., Soap and Harness Repairs	1 35
	13461	Union Iron Works, Steel	2 10
	13462	G. L. Siegel, Fertilizer and Salt	2 50
	13463	Jarecki Mfg. Co., Fittings	2 92
	13464	J. Jacobs, Oil Skin Coats	3 00
	13465	O. H. Nick, Closet Seat	4 00
	13466	N. Y. & Penna. Telephone & Telegraph Co., Rent of Telephone	4 04

July—Continued.

TO PAY VOUCHER.

Date.	No.	Of For	Amount.
	13467	Keystone Brass Co., Brass and Labor	$ 5 00
	13468	Samuel Hanna, Horse-Shoeing	5 60
	13469	Erie Gas Co., Coke	6 87
	13470	H. C. Dunn, Brick	7 00
	13471	D. Schlosser & Sons, Meter Boxes	7 40
	13472	Erie Car Works, Tools	8 00
	13473	Union Ice Co., Ice	8 74
	13474	O. C. Thayer & Son, Clay	9 40
	13475	Lyman Felheim, Lumber	9 57
	13476	Fire & Water Engineering, Advertising	10 00
	13477	Wm. Schade, Blacksmithing	12 33
	13478	C. Kessler, Soap, Brooms, etc	12 34
	13479	Pittsburg Meter Co., Meters	12 60
	13480	Saltsman & Austin, Lime & Cement	13 11
	13481	A. J. Louch, Horse Covers	16 60
	13482	E. J. Riblet, Shop Rent	20 00
	13483	John Reinhold, Jr., Lead, Oil, Paint, etc	22 88
	13484	Erie Mfg. & Supply Co., Gauge Cocks and Steel	24 94
	13485	W. H. Gingrich, Oats	26 00
	13486	Standard Brick Works, Brick	29 70
	13487	J. L. Firman, Teaming	32 03
	13488	Excelsior Boiler Compound Co., Boiler Compound	34 30
	13489	Erie Window Glass Co., Glass, Brushes, etc	35 00
	13490	C. F. Loesel, Closet and Sink	36 00
	13491	A. S. Pinney Hardware	39 86
	13492	Schluraff Floral Co., Flowers for Park	40 00
	13493	Mutual Telephone Co., Rent of Telephones	48 00
	13494	Cleveland Trinidad Paving Co., Repairing Paved Streets	53 10
	13495	Mehl & Sapper, Hardware	55 64

July—Continued.

TO PAY VOUCHER.

Date.	No.	Of For	Amount.
	13496	H. R. Worthington, Engine Repairs	$ 57 20
	13497	Union Water Meter Co., Meter Repairs	85 50
	13498	Walker Foundry Co., Castings	93 53
	13499	Erie Oil Co., Oil	111 23
	13500	Ashby Printing Co., Stationery	114 53
	13501	Hays Mfg. Co., Curb Boxes and Fittings	205 31
	13502	Erie Company, Electric Light Supplies	217 98
	13503	George P. Miller, Collector of Taxes, County, Taxes, 4th Ward	237 50
	13504	W. L. Scott Co., Coal	889 58
	13505	R. D. Wood & Co., Fire Hydrants and Stop Valves	930 00
	13506	John Kolb, Ass't Sec'y, Sundries	11 56
	13507	W. A. Tompkins, Repairs to Boat	50 00
	13508	Pay Roll—Street Work, Disbursed by W. C. Siegel, Clerk	538 55
16	13509	Pay Roll—Street Work, Disbursed by W. C. Siegel, Clerk	666 33
23	13510	John Kolb, Ass't Sec'y, Sundries	7 35
	13511	Wm. Bloeser, Painting	26 35
	13512	W. A. Tompkins, Repairs to Boat and Carpenter Work	33 43
	13513	Pay Roll—Street Work, Disbursed by W. C. Siegel, Clerk	619 35
30	13514	Pay Roll—Street Work, Disbursed by W. C. Siegel, Clerk	635 91
		Total	$ 9,618 37

August.

TO PAY VOUCHER.

Date.	No.	Of For	Amount.
1	13515	Mrs. Eva McCoy, Rent of Office, acc't Intake No. 2 Ext.	$ 12 00
	13516	Pay Roll—Office and Pumping Station, Disbursed by John Kolb, Ass't Sec'y	2,257 78
6	13517	Penna. Railroad Co., Freight on Pipe	18 15
	13518	John Kolb, Ass't Sec'y, Sundries	35 12
	13519	Pay Roll—Street Work, Disbursed by W. C. Siegel, Clerk	758 00

August—Continued.

TO PAY VOUCHER.

Date.	No.	Of For	Amount.
	13520	Longmead Iron Co., Galvanized Pipe	$ 579 58
9	13521	Erie Laboratory, Testing Pipe	100 00
13	13522	Erie Printing Co., Advertising	1 00
	13523	Thomson Meter Co., Meter Repairs	1 25
	13524	Lake City Machine Shops, Tools	1 35
	13525	Lyman Felheim, Lumber	1 50
	13526	Erie County Electric Co., Charging Batteries	1 60
	13527	Erie Engine Works, Engine Repairs	1 75
	13528	G. L. Siegel, Salt	1 80
	13529	Dispatch-News Co., Advertising	2 00
	13530	Times Publishing Co., Advertising	2 00
	13531	Erie Gas Co., Coke	2 70
	13532	R. J. Saltsman & Co., Harness Repairs, etc	2 73
	13533	Herald Printing & Publishing Co., Advertising and Stationery	2 85
	13534	Public Grocery Supply Co., Rolled Oats	3 63
	13535	John Reinhold, Jr., Paint	3 75
	13536	Murphy Bros., Tools and Nails	4 00
	13537	F. Wm. Weber, Negatives	4 00
	13538	U. D. Sweigard, Tools	4 38
	13539	Kirschner Bros., Meter Box	4 69
	13540	H. C. Gross, Wood	5 00
	13541	G. Paapesch, Gasoline and Supplies	5 25
	13542	Samuel Hanna, Horse-Shoeing	5 60
	13543	Erie Company, Electric Light Repairs	5 88
	13544	Harry Thompson, Cleaning Arithmometer and Keys	6 50
	13545	Johannessen Mfg. Co., Repairs to Boat	7 10
	13546	Hollands Mfg. Co., Tools	7 59
	13547	Palace Hardware House, Hardware	8 12
	13548	Kueffel & Esser Co., Engineer's Supplies	8 12

August—Continued.

TO PAY VOUCHER.

Date.	No.	Of For	Amount
	13549	Ashby Printing Co., Printing and Stationery	$ 8 35
	13550	C. Kessler, Soap, Brooms, etc	8 36
	13551	Erie Dry Goods Co., Flags	8 50
	13552	C. C. Wicks, Boat Hire	10 50
	13553	Union Ice Co., Ice	14 11
	13554	Saltsman & Austin, Cement	14 40
	13555	Dispatch Printing & Engraving Co., Printing and Stationery	17 75
	13556	E. J. Riblet, Shop Rent	20 00
	13557	W. H. Gingrich, Oats	28 40
	13558	J. L. Firman, Teaming	32 69
	13559	Excelsior Boiler Compound Co., Boiler Compound	34 30
	13560	Ohio Structural Iron Co., Settees	36 00
	13561	Union Water Meter Co., Meters	38 50
	13562	Standard Brick Works, Brick	46 26
	13563	W. E. Long, Collector of Taxes, Taxes, 6th Ward	62 25
	13564	Keystone Brass Co., Brass and Labor	51 51
	13565	Walker Foundry Co., Castings	71 72
	13566	Mehl & Sapper, Hardware	73 26
	13567	H. Muller Mfg. Co., Tapping Machine	76 50
	13568	R. D. Wood & Co., Stop Valves	124 00
	13569	Union Oil Works, Oil	141 18
	13570	Hays Mfg. Co., Stop Boxes and Fittings	145 34
	13571	W. L. Scott Co., Coal	883 79
	13572	U. S. Cast Iron Pipe & Foundry Co., Pipe	2,314 45
	13573	John Kolb, Ass't Sec'y, Sundries	39 32
	13574	Pay Roll—Street Work, Disbursed by W. C. Siegel, Clerk	751 94
20	13575	Himrod Engraving Co., Stationery	4 00
	13576	John Kolb, Ass't Sec'y, Sundries	9 93
	13577	Pay Roll—Street Work, Disbursed by W. C. Siegel, Clerk	716 51

August—Continued.

TO PAY VOUCHER.

Date.	No.	Of For	Amount.
27	13578	Erie Laboratory, Testing Pipe	$ 100 00
	13579	Pay Roll—Street Work, Disbursed by W. C. Siegel, Clerk	766 76
		Total	$10,517 35

September.

TO PAY VOUCHER.

Date.	No.	Of For	Amount.
1	13580	Mrs. Eva McCoy, Rent of Office, acc't Intake No. 2 Ext.	$ 12 00
	13581	Clark Olds, Services as Commissioner, 2 months	150 00
	13582	G. F. Brevillier, Services as Commissioner, 2 months	150 00
	13583	Willis B. Durlin, Services as Commissioner, 2 months	150 00
	13584	Pay Roll—Office and Pumping Station, Disbursed by John Kolb, Ass't Sec'y	2,233 29
	13585	Specialty Paint Co., Paint	26 46
3	13586	S. A. Davenport, Counsel Fees for 1904	100 00
	13587	Pay Roll—Street Work, Disbursed by W. C. Siegel, Clerk	654 36
10	13588	Lake City Machine Shops, Repairing Fire Hydrants	1 15
	13589	Erie Heating & Plumbing Co., Sheet Lead	1 20
	13590	O. H. Nick, Repairs to Closet	1 20
	13591	P. Harlan, Chairs	1 50
	13592	Dickson Gun Store, Dynamite	1 65
	13593	Burke Electric Co., Electric Light Repairs	1 80
	13594	Erie Company, Electric Light Repairs	2 00
	13595	Palace Hardware House, Hardware	2 43
	13596	Public Grocery Supply Co., Rolled Oats	2 50
	13597	O. C. Thayer & Son, Cement	2 50
	13598	Jarecki Mfg. Co., Expansion Joint	2 80
	13599	U. D. Sweigard, Repairing Lanterns	2 95
	13600	Erie City Directory, Directory	3 00
	13601	Hollands Mfg. Co., Tools	3 15

September—Continued.

TO PAY VOUCHER.

Date.	No.	Of For	Amount
	13602	Brown & Thomas, Iron	$ 3 26
	13603	E. Dietzgen Co., Engineer's Supplies	3 74
	13604	National Meter Co., Meter Repairs	3 75
	13605	Erie Window Glass Co., Glass, Paint, etc	5 30
	13606	Constable Bros. Co., Lumber	5 43
	13607	Murphy Bros., Oil Cans and Repairs	5 65
	13608	R. J. Saltsman & Co., Horse Collars	6 00
	13609	H. R. Worthington, Meter Repairs	6 04
	13610	Dr. J. C. Elviage, Veterinary Services	6 75
	13611	Boyd & Schafer, Cement	7 20
	13612	John Reinhold, Jr., Paint, Brushes and Sponges	7 25
	13613	Wm. F. Nick & Son, Paint and Photo. Supplies	7 39
	13614	W. E. Louch, Canvas Hose	7 50
	13615	C. Kessler, Brooms, Soap, etc	7 95
	13616	Erie Engine Works, Engine Repairs, etc	8 18
	13617	Erie Gas Co., Coke	9 83
	13618	Warner Bros., Carpets and Matting	10 45
	13619	Union Ice Co., Ice	10 55
	13620	Kirschner Bros., Meter Boxes	10 80
	13621	R. D. Wood & Co., Fire Hydrants	11 70
	13622	A. G. Smith, Repairing Typewriter	12 50
	13623	Sam'l Hanna, Horse-Shoeing	12 90
	13624	Saltsman & Austin, Cement	13 51
	13625	Union Iron Works, Steel, and Valve Repairs	13 92
	13626	Erie Mfg. & Supply Co., Tools	14 10
	13627	John J. O'Brien, Printing	14 70
	13628	Wm. Schade, Blacksmithing	15 55
	13629	F. W. Baker, Pier Repairs	16 00
	13630	Union Oil Works, Oil	18 93

September—Continued.

TO PAY VOUCHER.

Date.	No.	Of For	Amount.
	13631	E. J. Riblet, Shop Rent	$ 20 00
	13632	A. S. Pinney, Hardware	22 58
	13633	Standard Brick Works, Brick	24 98
	13634	W. H. Gingrich, Oats	25 00
	13635	Times Publishing Co., Stationery	31 50
	13636	J. L. Firman, Teaming	33 87
	13637	G. J. Paapesch, Dynamo, Twine and Flags	39 87
	13638	Keystone Brass Co., Brass Castings	50 49
	13639	Lyman Felheim, Lumber	58 79
	13640	Walker Foundry Co., Castings	60 98
	13641	Mehl & Sapper, Hardware	63 41
	13642	Mayer Bros., Repairing Paved Streets	79 50
	13643	Erie Oil Co., Oil	123 11
	13644	Hays Mfg. Co., Fittings, etc	179 45
	13645	Rensselaer Mfg. Co., Stop Valve	321 00
	13646	W. L. Scott Co., Coal	1,065 96
	13647	John Kolb, Ass't Sec'y, Sundries	7 25
	13648	Pay Roll—Street Work, Disbursed by W. C. Siegel, Clerk	584 42
17	13649	John Kolb, Ass't Sec'y, Sundries	6 30
	13650	Excelsior Boiler Compound Co., Boiler Compound	34 30
	13651	Wm. P. Mason, Analyses of Water	40 00
	13652	Ira H. Burke, Services as Swimming Master	48 00
	13653	F. W. Baker, Pier Repairs	58 00
	13654	Pay Roll—Street Work, Disbursed by W. C. Siegel, Clerk	664 98
20	13655	C. V. Grant, Repairing Standpipe	25 00
24	13656	National Carbon Co., Electric Light Supplies	14 85

September—Continued.

TO PAY VOUCHER.

		Of	For	Amount.
			ll—Street Work,	
			ursed by W. C. Siegel, Clerk	$ 635 10
		C	rant,	
			iring Standpipe	22 50
		F.	oth,	
		S	ices as Engineer, 1 month	115 00
	13660	O.	Roth,	
			Services as Greaser, 1 month	60 00
			Total	$ 8,298 96

October.

TO PAY VOUCHER.

Date.	No.	Of	For	Amount.
1	13661	Pay Roll—Office and Pumping Station,	Disbursed by John Kolb, Ass't Sec'y	$ 2,031 78
	13662	L. J. Baumann,	Cleaning Carpets	7 21
	13663	John Kolb, Ass't Sec'y,	Sundries	8 29
	13664	Frank & Hill, Agents,	Rent of Office, acc't Intake No. 2 Ext.	12 00
	13665	Pay Roll—Street Work,	Disbursed by W. C. Siegel, Clerk	620 05
8	13666	Erie Window Glass Co.,	Glass, Paint, etc	1 01
	13667	R. J. Saltsman & Co.,	Harness Repairs	1 10
	13668	W. E. Hayes & Co.,	Chimneys	1 20
	13669	Palace Hardware House,	Hardware	1 20
	13670	Saltsman & Austin,	Cement	1 50
	13671	Lyman Felheim,	Lumber	1 51
	13672	W. F. Nick & Son,	Paint and Oil	1 60
	13673	O. C. Thayer & Son,	Cement	1 80
	13674	J. H. Braggins,	Sheet Metal and Labor	2 25
	13675	Kueffel & Esser Co.,	Engineer's Supplies	2 93
	13676	Jas. Purcell,	Repairs to Hand Basin	3 23
	13677	Hollands Mfg. Co.,	Tools	3 33
	13678	J. E. Hoyt,	Photographs	3 50
	13679	J. L. Firman,	Teaming	4 00
	13680	Locke Regulator Co.,	Valve	4 00

October—Continued.

TO PAY VOUCHER.

Date.	No.	Of For	Amount.
	13681	N. Y. & Penna. Tel. & Tel. Co., Rent of Telephones	$ 4 04
	13682	Emil Streuber, Leather	4 16
	13683	Thomson Meter Co., Meter Repairs	4 16
	13684	L. D. Washburn, Meter Box	4 25
	13685	Electric Equipment Co., Electric Light Supplies	4 80
	13686	H. C. Gross, Wood	5 00
	13687	Erie Gas Co., Coke	5 03
	13688	Erie Engine Works, Engine Repairs	7 20
	13689	Sam'l Hanna, Horse-Shoeing	8 40
	13690	Union Iron Works, Boiler Repairs	8 45
	13691	Erie Mfg. & Supply Co., Packing and Tools	10 55
	13692	John Reinhold, Jr., Paint, Polish, etc	10 60
	13693	Union Ice Co., Ice	10 75
	13694	C. Kessler, Soap, Brooms, etc	11 86
	13695	F. Dudenhoefer, Brick	14 75
	13696	Warner Bros., Linoleum	18 87
	13697	E. J. Riblet, Shop Rent	20 00
	13698	National Meter Co., Meter Repairs	20 75
	13699	W. H. Gingrich, Oats	24 90
	13700	Keystone Brass Co., Brass and Labor	25 03
	13701	H. Beckman & Son, Rope, etc	27 16
	13702	Erie Company, Electric Light Supplies	28 35
	13703	C. V. Grant, Repairing Standpipe	44 38
	13704	Mutual Telephone Co., Rent of Telephone	48 00
	13705	Erie Dry Goods Co., Hardware	59 93
	13706	Walker Foundry Co., Castings	61 84
	13707	Ashby Printing Co., Books and Stationery	70 75
	13708	Herald Printing & Publishing Co., Printing and Stationery	74 75
	13709	Union Water Meter Co., Meters	75 75

October—Continued.

TO PAY VOUCHER.

Date.	No.	Of For	Amount.
	13710	Mehl & Sapper, Hardware	$ 78 57
	13711	H. R. Worthington, Engine Repairs	89 04
	13712	Union Oil Works, Oil	140 84
	13713	Hays Mfg. Co., Pipe and Fittings	175 78
	13714	U. S. Cast Iron Pipe & Foundry Co., Pipe	632 13
	13715	W. L. Scott Co., Coal	843 88
	13716	John Kolb, Ass't Sec'y, Sundries	8 66
	13717	Pay Roll—Street Work, Disbursed by W. C. Siegel, Clerk	618 80
15	13718	Pay Roll—Street Work, Disbursed by W. C. Siegel, Clerk	626 54
	13719	T. A. Gillespie Co., On Contract Intake No. 2 Ext.	15,000 00
	13720	F. P. Church, Act. Asst. Sec'y, Sundries	26 66
	13721	C. V. Grant, Repairing Standpipe	37 18
22	13722	Excelsior Boiler Compound Co., Boiler Compound	34 30
	13723	C. V. Grant, Repairing Standpipe	44 06
	13724	Pay Roll—Street Work, Disbursed by W. C. Siegel, Clerk	611 25
29	13725	Louis Irving, Repairing Boilers	4 50
	13726	John Kolb, Ass't Sec'y, Sundries	6 00
	13727	Lake Shore & Michigan Southern R. R., Freight	9 59
	13728	D. P. Murphy, Repairs to Boilers	17 50
	13729	T. A. Gillespie Co., Intake No. 2 Ext.	54 70
	13730	Pay Roll—Street Work, Disbursed by W. C. Siegel, Clerk	548 11
		Total	$23,036 04

November.

TO PAY VOUCHER.

Date.	No.	Of For	Amount.
1	13731	Frank & Hill, Agents, Rent of Office, acc't Intake No. 2 Ext.	$ 12 00
	13732	Clark Olds, Services as Commissioner, 2 months	150 00
	13733	G. F. Brevillier, Services as Commissioner, 2 months	150 00
	13734	Willis B. Durlin, Services as Commissioner, 2 months	150 00
	13735	Pay Roll—Office and Pumping Station, Disbursed by John Kolb, Ass't Sec'y	2,116 73
5	13736	Lake Shore & Michigan Southern R. R., Freight on Flues	8 82
	13737	John M. Lynch, Inspection of Boilers	12 00
	13738	John Kolb, Ass't Sec'y, Sundries	25 99
	13739	Chas. V. Grant, Repairing Standpipe and Chimney	61 25
	13740	Pay Roll—Street Work, Disbursed by W. C. Siegel, Clerk	640 36
12	13741	G. J. Miller, Horse Medicine	1 00
	13742	Builders' Supply & Sand Co., Sand	1 20
	13743	R. J. Saltsman & Co., Harness Repairs	1 95
	13744	U. D. Sweigard, Repairing Tools	2 00
	13745	O. C. Thayer & Son, Cement	2 10
	13746	Murphy Bros., Repairing Oil Cans, etc	2 35
	13747	A. P. Howard, Connection Repairs	2 40
	13748	W. E. Hayes & Co., Lamps	3 50
	13749	Burke Electric Co., Electric Light Repairs	3 53
	13750	Warfel & Arbuckle, Horse Blankets	4 00
	13751	J. H. Walker, Stationery	4 95
	13752	H. C. Gross, Wood	5 00
	13753	Union Ice Co., Ice	5 29
	13754	Kirschner Bros., Meter Box	5 65
	13755	Erie Company, Electric Light Repairs	5 70
	13756	R. J. Saltsman, Coal	6 25
	13757	Erie Gas Co., Coke	6 84
	13758	C. Kessler, Soap, Brooms, etc	7 00
	13759	Mutual Telephone Co., Rent of Telephone	7 47

November—Continued.

TO PAY VOUCHER.

	For	Amount.
	l Hanna,	
	rse-Shoeing	$ 7 70
	ison Meter Co.,	
	ter Repairs	7 74
	Dunn,	
	ick	8 40
	inhold, Jr.,	
	lish, Paint, etc	9 60
	A. Marks,	
	Oil Skins and Hat	10 00
3765	J. H. Williams,	
	Standpipe Inspection	10 00
	R. T. Shank,	
	Standpipe Inspection	10 00
767	C. N. Hathaway,	
	Standpipe Inspection	10 00
13768	H. R. Worthington,	
	Engine Repairs	12 20
13769	Saltsman & Austin,	
	Lime and Cement	13 40
13770	Dispatch Printing & Engraving Co.,	
	Books and Printing	13 50
13771	Jarecki Mfg. Co.,	
	Pipe and Fittings	16 53
13772	J. L. Firman,	
	Teaming	18 35
13773	E. J. Riblet,	
	Shop Rent	20 00
13774	Erie Mfg. & Supply Co.,	
	Tools and Packing	21 34
13775	Wm. Schade,	
	Blacksmithing	27 81
13776	F. R. Simmons,	
	Barn Rent	30 00
13777	Palace Hardware House,	
	Hardware	30 76
13778	Keystone Brass Co.,	
	Brass and Labor	34 41
13779	Union Oil Works,	
	Oil	38 70
13780	Walker Foundry Co.,	
	Castings	95 61
13781	R. D. Wood & Co.,	
	Valve Repairs	100 00
13782	Mehl & Sapper,	
	Hardware	108 80
13783	Erie Oil Co.,	
	Oil	114 10
13784	Hays Mfg. Co.,	
	Fittings	146 14
13785	U. S. Cast Iron Pipe & Foundry Co.,	
	Pipe	758 26
13786	Union Iron Works,	
	Boiler Repairs	803 45
13787	W. L. Scott Co.,	
	Coal	943 22
13788	John Kolb, Ass't Sec'y,	
	Sundries	13 95

November—Continued.

TO PAY VOUCHER.

Date.	No.	Of For	Amount.
	13789	Pay Roll—Street Work, Disbursed by W. C. Siegel, Clerk	$ 612 31
19	13790	John Kolb, Ass't Sec'y, Sundries	29 88
	13791	Pay Roll—Street Work, Disbursed by W. C. Siegel, Clerk	603 16
26	13792	W. J. Sterrett use J. S. Henry, Water Rents Returned	6 20
	13793	John Kolb, Ass't Sec'y, Sundries	8 26
	13794	Pay Roll—Street Work, Disbursed by W. C. Siegel, Clerk	563 32
	13795	C. V. Grant, Painting Steel Plate Chimney	140 00
		Total	$ 8,803 13

December.

TO PAY VOUCHER.

Date.	No.	Of For	Amount.
1	13796	Pay Roll—Office and Inspectors, and Pumping Station, Disbursed by John Kolb, Ass't Sec'y	$ 2,144 01
3	13797	John Kolb, Ass't Sec'y, Sundries	7 42
	13798	The Bristol Co., Gauge	47 04
	13799	Pay Roll—Street Work, Disbursed by W. C. Siegel, Clerk	540 79
10	13800	Erie City Iron Works, Meter Repairs	1 00
	13801	H. F. Watson Co., Tar Paper	1 00
	13802	J. D. Johnson & Co., Lumber	1 22
	13803	Erie Machine Shops, Machine Work	1 25
	13804	Dispatch Printing & Engraving Co., Stationery	1 75
	13805	W. F. Nick & Son, Acid	1 90
	13806	Dayton Electrical Mfg. Co., Repairing Dynamo	3 00
	13807	John Reinhold, Jr., Paint, etc	3 70
	13808	Hollands Mfg. Co., Tools	3 93
	13809	Denning Bros., Meter Box	4 00
	13810	G. F. Buchaman, Weighing Iron	4 40
	13811	Bay State Machine Co., Machine Work	4 66
	13812	H. C. Gross, Wood	5 00
	13813	G. J. Gebhardt, Coal	5 00

December—Continued.

TO PAY VOUCHER.

Date.	No.	Of For	Amount.
	13814	H. R. Worthington, Meter Repairs	$ 5 04
	13815	Warfel & Arbuckle, Blankets	5 50
	13816	Boyd & Schafer, Cement	5 78
	13817	Erie Mfg. & Supply Co., Tools	6 60
	13818	O. C. Thayer & Son, Cement	6 60
	13819	Erie Oil Co., Oil	7 16
	13820	Erie Window Glass Co., Paint, Glass and Oil	9 91
	13821	Himrod Engraving Co., Letterheads	10 00
	13822	Erie Gas Co., Coke	10 12
	13823	Lyman Felheim, Lumber	10 31
	13824	Sam'l Hanna, Horse-Shoeing	11 20
	13825	John M. Lynch, Boiler Inspection	12 00
	13826	R. J. Saltsman, Cement and Coal	12 05
	13827	Walter Scott & Co., Insurance	12 65
	13828	Downing & Flickinger, Insurance	12 65
	13829	L. J. Van Anden & Co., Insurance	12 65
	13830	T. M. Hemphill, Insurance	12 65
	13831	U. D. Sweigard, Pans, and Repairing Lanterns	13 00
	13832	Erie Engine Co., Machine Work	15 00
	13833	Harry Thompson, Cleaning Arithmometer and Keys	16 75
	13834	W. H. Gingrich, Oats	21 00
	13835	J. L. Firman, Teaming	23 91
	13836	The Fairbanks Co., Valve	26 30
	13837	Union Iron Works, Boiler Repairs	27 95
	13838	M. Quigley, Rope	35 70
	13839	Palace Hardware House, Hardware	39 87
	13840	H. C. Dunn, Brick	39 90
	13841	Erie Laboratory, Analyses of Water	40 00
	13842	Mayer Bros., Repairing Paved Streets	42 86

December—Continued.

TO PAY VOUCHER.

Date.	No.	Of For	Amount.
	13843	Jarecki Mfg. Co., Brass and Labor and Tools	$ 46 39
	13844	Erie Company, Electric Light Wiring, etc	46 81
	13845	Mehl & Sapper, Hardware	47 11
	13846	Union Water Meter Co., Meter Repairs	53 00
	13847	Walker Foundry Co., Castings	61 25
	13848	Keystone Brass Co., Brass and Labor	61 41
	13849	Constable Bros. Co., Lumber and Labor	109 07
	13850	Wm. Bloeser, Painting Reservoir Fence	115 00
	13851	Union Oil Works, Oil	139 04
	13852	Hays Mfg. Co., Fittings, Pipe, etc	171 71
	13853	C. F. Loesel, Repairing Roof	188 24
	13854	Hersey Mfg. Co., Meters	696 44
	13855	U. S. Cast Iron Pipe & Foundry Co., Pipe	962 18
	13856	W. L. Scott Co., Coal	1,249 62
	13857	John Kolb, Ass't Sec'y, Sundries	14 57
	13858	Pay Roll—Street Work, Disbursed by W. C. Siegel, Clerk	322 42
	13859	E. J. Riblet, Shop Rent	20 00
	13860	J. S. Thompson, Receiver, Metal Polish	5 76
	13861	John Kolb, Ass't Sec'y, Sundries	20 15
	13862	Isador Sobel, Postage	110 00
	13863	Pay Roll—Street Work, Disbursed by W. C. Siegel, Clerk	256 51
	13864	The T. A. Gillespie Co., On Contract Intake No. 2 Ext.	15,302 08
21	13865	Frank & Hill, Agents, Rent of Office, Intake No. 2 Ext.	12 00
	13866	Clark Olds, Services as Commissioner, 2 months	150 00
	13867	G. F. Brevillier, Services as Commissioner, 2 months	150 00
	13868	Willis B. Durlin, Services as Commissioner, 2 months	150 00
	13869	Pay Roll—Office and Pumping Station, Disbursed by John Kolb, Ass't Sec'y	2,180 53
24	13870	C. J. Brown, Hay	14 27
	13871	John Kolb, Ass't Sec'y, Sundries	28 05

December—Continued.

TO PAY VOUCHER.

Date.	No.	Of For	Amount.
	13872	Pay Roll—Street Work, Disbursed by W. C. Siegel, Clerk	$ 249 32
	13873	The Sims Co., Flue Cleaners	320 00
28	13874	Erie Machine Shops, Tools	1 00
	13875	Murphy Bros., Repairing Torches	1 05
	13876	Hollands Mfg. Co., Tools	1 08
	13877	Erie Gas Co., Coke	1 13
	13878	John Reinhold, Jr., Brushes and Sponges	1 30
	13879	Erie Window Glass Co., Glass, Paint, etc	1 31
	13880	W. F. Nick & Son, Acid and Photo. Supplies	1 50
	13881	C. Flickinger, Tools	1 70
	13882	G. L. Siegel, Oil Meal	1 97
	13883	Erie Engine Works, Machine Work	2 40
	13884	Erie Mfg. & Supply Co., Tools	2 40
	13885	South Erie Iron Works, Castings	2 50
	13886	Boyd & Schafer, Cement	2 60
	13887	Burke Electric Co., Electric Light Supplies	2 94
	13888	Lyman Felheim, Lumber	3 28
	13889	Union Iron Works, Castings	4 60
	13890	Palace Hardware House, Hardware	5 50
	13891	A. F. Bush, Electric Light	6 00
	13892	Mrs. Orilla Block, Washing Towels	7 00
	13893	Wm. Crane, Burglar Alarm	7 00
	13894	C. Kessler, Soap, Brooms, etc	7 00
	13895	A. J. Mitchell, Veterinary Services	6 00
	13896	Samuel Hanna, Horse-Shoeing	7 30
	13897	Keystone Brass Co., Brass and Labor	8 77
	13898	Epp Bros., Stove	10 00
	13899	Jas. L. Firman, Teaming	10 00
	13900	F. R. Simmons, Barn Rent	10 00

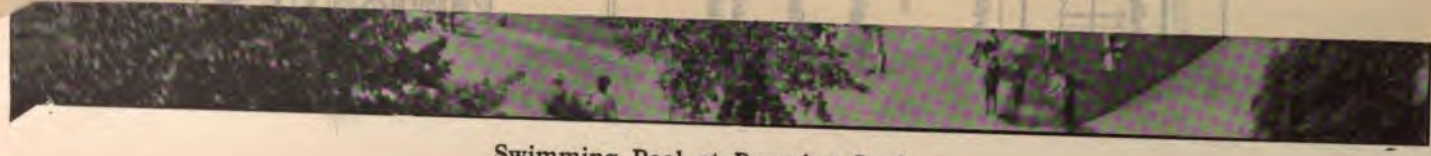
December—Continued.

TO PAY VOUCHER.

Date.	No.	Of For	Amount.
	13901	Mayer Bros., Paving Brick	$ 10 50
	13902	G. J. Gebhardt, Coal	12 50
	13903	H. Beckman & Son, Rope, Paint, etc	12 86
	13904	Constable Bros. Co., Lumber, etc	13 11
	13905	Sterling Oil Co., Grease	14 60
	13906	Wm. Schade, Blacksmithing	19 67
	13907	E. J. Riblet, Shop Rent	20 00
	13908	Erie Company, Electric Light Supplies	25 55
	13909	W. H. Gingrich, Oats	25 70
	13910	Walker Foundry Co., Castings	29 71
	13911	Excelsior Boiler Compound Co., Boiler Compound	34 30
	13912	U. D. Sweigard, Repairing Tools, and Roof	37 97
	13913	H. R. Worthington, Engine Repairs	50 00
	13914	Erie Oil Co., Oil	54 14
	13915	D. P. Murphy, Repairing Buildings, etc	58 50
	13916	Hays Mfg. Co., Fittings, etc	73 19
	13917	National Lead Co., Solder	81 75
	13918	Mehl & Sapper, Hardware	135 14
	13919	W. L. Scott Co., Coal	758 16
	13920	Coffin Valve Co., Valves	2,070 00
	13921	J. Kretz, Agt., Tin Box	2 65
	13922	D. Schlosser & Sons, Lumber	6 00
31	13923	John Kolb, Ass't Sec'y, Sundries	10 67
	13924	Pay Roll—Street Work, Disbursed by W. C. Siegel, Clerk	268 38
		Total	$30,493 49

RECAPITULATION, 1904.

Number Vouchers Issued.	MONTHS.	AMOUNTS.
39	January	$ 5,111 90
63	February	4,655 45
64	March	10,185 02
70	April	9,969 29
53	May	7,347 26
66	June	9,600 65
64	July	9,618 37
65	August	10,517 35
81	September	8,298 96
70	October	23,036 04
65	November	8,803 13
129	December	30,493 49
829	Total	$ 137,636 91



Swimming Pool at Pumping Station.

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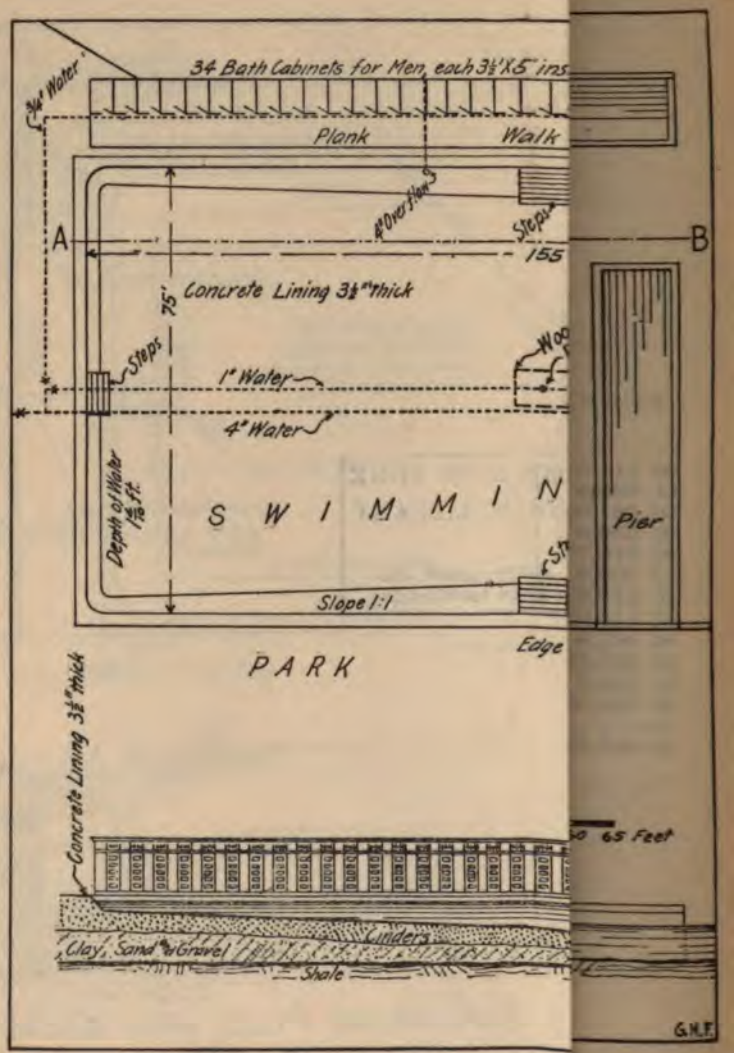
ASTOR, LENOX AND TILDEN FOUNDATIONS.


34 Bath Cabinets for Men, each 3½'X5' ins
Plank
Walk
4" Overflow
Steps
A
B
155
75'
Concrete Lining 3½" thick
Steps
1" Water
4" Water
Depth of Water 1½ ft.
S W I M M I N
Pier
Slope 1:1
Edge
PARK
Concrete Lining 3½" thick
65 Feet
Cinders
Clay, Sand & Gravel
Shale
G.H.F.

Swimming Pool at Pumping Station.

DISBURSEMENTS.

DEPARTMENTS.	ACCOUNT.		For the Year	
Construction.	Advertising, Books, Printing and Stationery	a	$	$ 18,604 57
	Boilers No. 1 to 8	g		142,254 53
	Buildings and Grounds		4,246 85	8,554 80
	Civil Engineering			149,371 92
	Connections		5,858 39	2,724 88
	Drinking Fountains	d	380 11	5,628 47
	Electric Light Plant	a	14 83	96,715 79
	Engines and Boilers to Dec. 31, 1891			48,441 43
	Engine No. 4	b		33,568 49
	Engine No. 5	k		1,955 73
	Engine Room Furniture and Fixtures		45 47	455 87
	Expense	a	6 69	36,329 28
	Fire Hydrants		1,855 08	440 16
	Fuel	a	32 40	49,530 12
	High Service System	h		6,907 89
	Horse, Wagon and Cartage		367 25	49,474 39
	Intake Pipe No. 1			140,971 03
	Intake Pipe No. 2	b		51,289 01
	Intake Pipe No. 2 Ext	l	39,552 51	99,420 95
	Interest and Discount			496 44
	Light, Oil, Lamps, Wicks, etc	a	31 42	7,997 41
	Lowering Mains		1,091 98	785,144 78
	Mains		17,596 18	27,859 37
	Meters		1,066 27	859 55
	Meter Boxes	m	419 69	2,807 22
	Office Furniture and Fixtures	a	5 24	3,244 68
	Park Fountains			2,918 92
	Railroad Switch and Scales			123,150 83
	Reservoir			

Construction.	Shop Rent	a	123 12	1,647 58
	Steel Plate Chimney No. 1	g		4,177 53
	Stop Valves		1,412 08	49,465 26
	Tools		1,277 60	13,645 61
	Tools, Coal, Elevator Conveyor	j		1,922 09
	Water Lots	g		15,987 29
Maintenance.	Advertising, Books, Printing and Stationery	e		522 23
	Boilers to March 5, 1898	a		24,501 08
	Boilers No. 1 to 8		5,061 33	11,946 60
	Buildings and Grounds	a	2,426 73	44,587 75
	Connections		2,748 60	30,890 23
	Drinking Fountains	d	99 27	629 67
	Electric Light Plant	b	856 22	3,377 51
	Engines to Dec. 31, 1892			13,402 04
	Engine No. 1	c		174 59
	Engine No. 2	c		489 57
	Engine No. 3	c	109 23	6,187 85
	Engine No. 4	d	575 06	7,190 13
	Engine No. 5	i	505 27	2,473 27
	Engine Room, Furniture and Fixtures	a	70 25	684 91
	Expense	a	7 08	1,152 01
	Fire Hydrants	a	431 91	5,067 49
	Fuel	a	40 72	373 99
	High Service System	i		105 45
	Horse, Wagon and Cartage		366 81	7,158 32
	Intake Pipe No. 1	a		165 26
	Intake Pipe No. 2	i		38 51
	Light, Oil, Lamps, Wicks, etc	a	37 28	364 05
	Mains		1,695 15	35,121 82
	Meters		321 65	8,001 11
	Meter Boxes	m	108 74	190 27
	Office Furniture and Fixtures	a	87 30	1,186 94

a Accounts opened in 1891. *b* Accounts opened in 1892. *c* Accounts opened in 1893. *d* Accounts opened in 1894.
e Accounts opened in 1895. *g* Accounts opened in 1897. *h* Accounts opened in 1898. *i* Accounts opened in 1899.
j Accounts opened in 1900. *k* Accounts opened in 1901. *l* Accounts opened in 1902. *m* Accounts opened in 1903.

DISBURSEMENTS.—Continued.

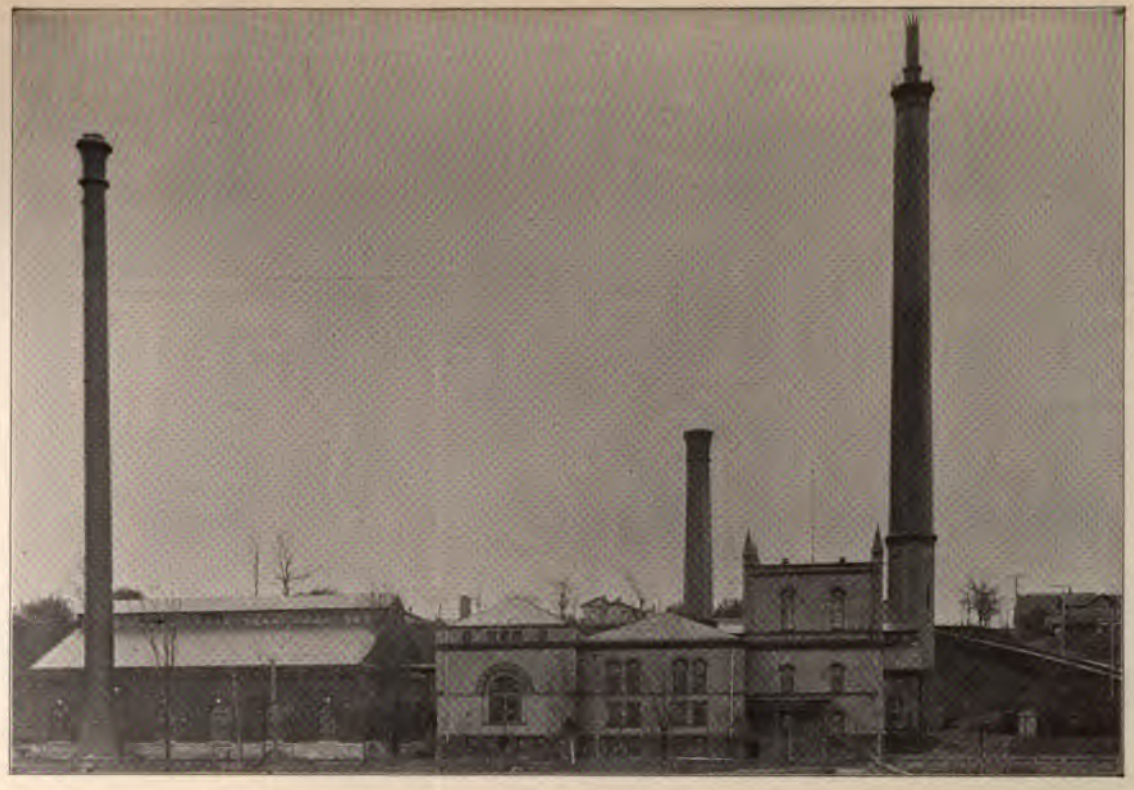
DEPARTMENTS.	ACCOUNT.		For the Year 1904.	From Beginning of Works to Dec. 31, 1904.
Maintenance.	Railroad Switch and Scales	a	$	$ 1,220 42
	Reservoir		294 08	37,404 16
	Shop Rent	a	123 12	1,647 24
	Standpipe	c	304 93	6,240 51
	Steel Plate Chimney No. 1	h	145 29	473 94
	Stop Valves		1,547 01	9,178 36
	Tools		1,475 41	15,674 99
	Tools, Coal, Elevator and Conveyor	k	113 01	193 90
	Waste and Packing	b		444 03
Operating.	Advertising, Books, Printing and Stationery	a	34 94	2,147 08
	Buildings and Grounds	b	2,618 75	17,820 70
	Boiler Inspection	m	49 25	99 15
	Drinking Fountains	g	126 51	930 16
	Electric Light	b	15 49	488 81
	Engineers and Firemen		9,729 83	191,457 24
	Expense	a	139 17	4,014 04
	Fire Hydrants	b	573 06	3,875 30
	Flushing Sewers	g		51 40
	Fuel		11,273 79	230,728 55
	Inspectors	c	2,528 63	29,608 13
	Insurance		51 92	1,837 27
	Light, Oil, Lamps, Wicks, etc	a	81 75	836 37
	Machinists	j	1,816 12	8,300 55
	Meters	b	524 50	5,996 25
	Oil and Tallow		1,271 77	24,956 78
	Reservoir	b	492 49	6,261 46
	Stop Valves	e	255 79	850 70
	Taxes, U. S. State, County, School		307 55	4,213 81
	Telephone and Telegraph	a	233 43	2,699 26

Operating.	Turning Off and On Water	g	342 27	2,112 41
	Waste and Packing		1,084 78	12,915 08
	Water Rents Returned		44 81	1,220 46
Accounting.	Advertising, Books, Printing and Stationery		1,069 59	14,282 91
	Expense		14 16	15,009 20
	Postage		320 45	8,939 50
	Salaries		7,585 51	236,182 81
Legal.	Court Cost		.....	490 42
	Counsel Fees		100 00	4,780 49
	Damages	j	6 00	414 38
	Expense		4 00	193 02
Sundries.	City of Erie, Board of Commissioners, Sinking Fund		.....	170,500 00
	City of Erie		6 10	136 74
			$ 137,636 91	$ 3,267,485 26

a Accounts opened in 1891. *b* Accounts opened in 1892. *c* Accounts opened in 1893. *d* Accounts opened in 1894.
e Accounts opened in 1895. *g* Accounts opened in 1897. *h* Accounts opened in 1898. *i* Accounts opened in 1899.
j Accounts opened in 1900. *k* Accounts opened in 1901 *l* Accounts opened in 1902. *m* Accounts opened in 1903.

RECAPITULATION.

DEPARTMENT.	FOR THE YEAR 1904.		From Beginning of Works to Dec. 31, 1904.
	Pro Rata.	Total.	
Construction	.547695–|–	$ 75,383 06	$ 1,992,402 11
Maintenance	.144050–|–	19,551 45	277,257 87
Operating	.244095–|–	33,596 59	546,895 81
Accounting	.065314–|–	8,989 71	274,414 42
Sundries	.000044–|–	6 10	170,636 74
Legal	.000799–|–	110 00	5,878 31
Totals	.999997–|–	$ 137,636 91	$ 3,267,485 26



Pumping Station as Seen from the Bay.

BALANCE SHEET.

1904. ASSESSED ACCOUNTS. 1904.

Ward.	Bal. from Dec. 31, '03.	Assessments.	Additions.	Penalties.	Balance to Jan 1, 1905	Totals.	Bal. from Dec.31,'03	Deductions.	Cash.	Balance to Jan.1,'05.
1	$ 26 22	$ 17,064 37	$ 601 74	$ 80 75	$ 22 65	$ 17,795 73	$ 11 55	$ 1,899 71	$ 15,846 21	$ 38 26
2	49 85	24,418 96	895 84	92 26	51 49	25,508 40	64 28	924 15	24,480 25	39 72
3	42 97	28,448 99	975 49	105 36	66 42	29,639 23	68 71	1,270 50	28,245 89	54 13
4	34 87	22,540 90	604 65	92 59	30 29	23,303 30	38 43	1,712 77	21,514 77	37 33
5	25 89	13,672 10	698 34	61 23	31 42	14,488 98	6 78	806 24	13,637 61	38 35
6	14 69	14,048 82	577 06	56 04	27 20	14,723 81	21 92	555 03	14,109 95	36 91
7	10 08	1,860 73	143 62	6 94	26	2,021 63	6 50	273 28	1,734 87	6 98
Total.....	$ 204 57	$ 122,054 87	$ 4,496 74	$ 495 17	$ 229 73	$ 127,481 08	$ 218 17	$ 7,441 68	$ 119,569 55	$ 251 68
METER ACCOUNTS.										
1	$ 869 02	$ 3,791 91	$ 7 36	$ 5 50	$.....	$ 4,673 79	.....	$.....	$ 3,808 91	$ 864 88
2	3,957 56	14,710 96	4 69	38 82	.....	18,712 03	.....	10 58	15,293 38	3,408 07
3	1,995 41	7,847 24	91	18 63	.....	9,862 19	.....	1 32	8,015 31	1,845 56
4	352 02	1,768 38	2 33	11 53	07	2,134 33	.....	5 72	1,744 97	383 64
5	680 72	2,715 53	18 85	16 67	.....	3,431 77	.....	5 80	2,799 69	626 28
6	169 73	1,243 64	27 86	7 10	.....	1,448 33	.....	14 41	1,194 31	239 61
7	486 13	3,018 23	60 88	10 61	.....	3,575 85	.....	9 38	2,712 51	853 96
Total.....	$ 8,510 59	$ 35,095 89	$ 122 88	$ 108 86	$ 07	$ 43,838 29	.....	$ 47 21	$ 35,569 08	$ 8,222 00
SPECIAL PERMITS.										
1	.....	$ 9 25	.....	.....	.....	$ 9 25	.....	.....	$ 9 25	.....
2	.....	18 57	.....	.....	.....	18 57	.....	.....	18 57	.....
3	.....	51 75	.....	.....	.....	51 75	.....	.....	51 75	.....
4	.....	25 75	.....	.....	.....	25 75	.....	.....	25 75	.....
5	.....	3 00	.....	.....	.....	3 00	.....	.....	3 00	.....
6	.....	13 00	.....	.....	.....	13 00	.....	.....	13 00	.....
7	.....	10 24	.....	.....	.....	10 24	.....	.....	10 24	.....
Total.....	.....	$ 131 56	.....	.....	.....	$ 131 56	.....	.....	$ 131 56	.....

				BUILDING PERMITS.						
1	.....	$ 70 82	.....	.....	.....	$ 70 82	.....	.....	$ 70 82	.....
2	.....	109 16	.....	.....	.....	109 16	.....	.....	109 16	.....
3	.....	552 16	.....	.....	.....	552 16	.....	.....	552 16	.....
4	.....	92 63	.....	.....	.....	92 63	.....	.....	92 63	.....
5	.....	103 63	.....	.....	.....	103 63	.....	.....	103 63	.....
6	.....	101 62	.....	.....	.....	101 62	.....	.....	101 62	.....
7	.....	8 30	.....	.....	.....	8 30	.....	.....	8 30	.....
Total	.....	$ 1,038 32	.....	.....	.....	$ 1,038 32	.....	.....	$ 1,038 32	.....
Total Water	$ 8,715 16	$ 158,320 64	$ 4,619 62	$ 604 03	$ 229 80	$ 172,489 25	$ 218 17	$ 7,488 89	$ 156,308 51	$ 8,473 68
				PLUMBING ACCOUNTS.						
1	$ 7 20	$ 244 40	.....	.....	.....	$ 251 60	.....	$	$ 251 60	$ .....
2	30 60	1,515 49	.....	.....	.....	1,546 09	.....	.....	1,546 09	.....
3	87 02	1,023 00	.....	.....	.....	1,110 02	.....	36 93	943 41	129 68
4	1,005 45	914 89	.....	.....	.....	1,920 34	.....	1,787 04	78 60	54 70
5	.....	247 79	.....	.....	.....	247 79	.....	.....	247 79	.....
6	2 25	174 11	.....	.....	.....	176 36	.....	20	176 16	.....
7	.....	630 15	.....	.....	.....	630 15	.....	.....	630 15	.....
Total	$ 1,132 52	$ 4,749 83	.....	.....	.....	$ 5,882 35	.....	$ 1,824 17	$ 3,873 80	$ 184 38
Gr'd Total	$ 9,847 68	$ 163,070 47	$ 4,619 62	$ 604 03	$ 229 80	$ 178,371 60	$ 218 17	$ 9,313 06	$ 160,182 31	$ 8,658 06

CITY OF ERIE, PENN'A.—IN ACCOUNT WITH COMMISSIONERS OF WATER WORKS, IN THE CITY OF ERIE.

Dr. 1904.			Cr. 1903.		
Dec. 31.	Water for City Hall	$ 275 30	Dec. 31	Balance due the City	$ 527020 97
	Engine Houses	250 28			
	Fire Hydrants (725@$55.00 per year)	39875 00	1904		
	Cart Sprinkling Hydrants	324 38	Dec. 31	Interest on quarterly balances	20000 37
	Fountains—Park	1251 05			
	Fountains—Lakeside Park	150 00		Rent of Office for one year	1200 00
	Fountains—Drinking (10@$15.00 and 6 @ $18.75 per year)	222 47			
	Flushing Sewers	147 50			
	Municipal Hospital	60 13			
	Parks—Central, East	50 00			
	Parks—Central, West	50 00			
	Parks—Lakeside, East	57 10			
	Parks—Lakeside, West	72 00			
	Settling filling in sewer trench	246 70			
	Sprinkling—State St. bet. Front & Dock	140 80			
	Sundries—Water used for concrete on overhead crossing	4 80			
	Material furnished and water used for concrete work on Buffalo Road	9 53			
	Labor and Material for making sprinkler connections on West 10th bet. Cherry and Poplar Streets	373 06			
	Interest on balances in Second National Bank from Jan. 1, 1904, to Dec. 31, 1904	2127 49			
		$ 45687 59			
	Balance due the City of Erie, Penn'a, December 31st, 1904	502533 75			
		$ 548221 34			$ 548221 34

STATEMENT OF RESOURCES AND LIABILITIES, DECEMBER 31, 1904.

RESOURCES.		LIABILITIES.	
PLANT NORTH OF FRONT STREET.		City of Erie	$ 502533 75
Buildings and Grounds	$ 161962 69	Credit on Assessed & Meter Accounts	229 80
Boilers from January 1st, 1896	18881 54	Balance	1601833 23
Engines and Boilers to December 31st, 1891	107309 35		
Engine No. 4 from January 1st, 1892	49147 09		
Engine No. 5 from January 1st, 1898	34031 72		
Electric Light Plant	5726 22		
Engine Room Furniture and Fixtures	2113 08		
Intake Pipe: No. 1	55568 44		
Intake Pipe: No. 2 from January 1st, 1892	143826 35		
Intake Pipe: No. 2 Extension from January 1st, 1902	51801 19		
Tools: Coal Elevator and Conveyor	2799 00		
Tools: Tools—Including Machine Shop, Meter Prover, etc.	5242 36		
Railroad Switches and Scales	3262 09		
Steel Plate Chimney No. 1 from January 1st, 1896	4245 44		
Water Lots from January 1st, 1895	16151 00		
PLANT SOUTH OF FRONT STREET.			
Connections	156552 65		
Drinking Fountains	2648 68		
Fire Hydrants	37729 47		
High Service System from January 1st, 1898	50156 61		
Mains, including Lowering Mains	754235 96		
Mains—30-inch	83289 35		
Meters, including Meter Boxes	29478 46		
Stop Valves	51897 36		
Office Furniture and Fixtures	2852 78		
Reservoir	137629 35		
PERSONAL.			
Assessed Accounts	251 68		
Meter "	8222 00		
Plumbing	184 38		
CASH—In hands of Treasurer, City of Erie	127400 49		
	$2104596 78		$ 2104596 78

ASSESSMENTS FOR 1905.

	WARDS.														TOTALS.	
	First.		Second.		Third.		Fourth.		Fifth.		Sixth.		Seventh.			
	No.	Amount	No.	Amount	No.	Amount	No.	Amount	No.	Amount	No.	Amount	No.	Amount	No.	Amount
Air Pumps	15	$ 51 00	38	$ 114 00	29	$ 87 00	18	$ 57 00	11	$ 36 00	10	$ 33 00	1	$ 3 75	122	$ 381 75
Aquariums	....	.....	1	3 00	1	10 00	....	.....	....	.....	....	.....	....	.....	2	13 00
Automobiles	7	14 00	5	10 00	23	46 00	23	46 00	4	8 00	2	4 00	....	.....	64	128 00
Bakeries	1	5 00	8	41 24	6	42 36	2	10 00	3	15 00	8	41 24	1	6 25	29	161 09
Banks	3	25 00	....	.....	1	10 00	2	15 00	....	.....	....	.....	....	.....	6	50 00
Barber Chairs	25	70 00	45	136 00	55	154 00	33	92 00	18	54 00	14	40 00	....	.....	190	546 00
Bath Tubs	498	1458 50	551	1631 50	1108	3254 50	830	2318 00	350	1080 67	359	1065 00	35	119 38	3731	10927 55
Billiard Tables	....	.....	4	4 00	34	34 00	14	14 00	2	2 00	6	6 00	....	.....	60	60 00
Blacksmith Fires	3	12 50	11	45 00	11	42 50	5	20 00	5	25 00	1	5 00	....	.....	36	150 00
Boat Houses	2	25 00	....	.....	....	.....	2	20 00	....	.....	....	.....	....	.....	4	45 00
Bonds	2	4 23	3	15 49	3	10 97	4	10 03	12	62 91	10	39 26	3	259 05	37	401 94
Bottling Works	....	.....	2	20 00	....	.....	....	.....	....	.....	....	.....	....	.....	2	20 00
Bowling Alleys	1	5 00	1	5 00	2	10 00	1	5 00	1	5 00	1	5 00	....	.....	7	35 00
Churches & Sunday Sch's	4	5 33	8	13 37	18	32 74	8	16 71	5	8 36	7	11 72	1	2 09	51	90 32
City Parks	4	177 90	....	.....	....	.....	3	192 00	....	.....	....	.....	....	.....	7	369 90
Club Rooms	4	12 00	9	41 00	7	29 00	8	34 00	....	.....	3	11 00	....	.....	31	127 00
Cows	9	6 75	6	4 50	5	3 75	3	2 25	27	19 75	7	5 25	5	4 69	62	46 94
Eating Houses	3	18 00	15	58 35	24	93 03	10	36 68	4	16 67	7	11 68	....	.....	63	234 41
Elevators	1	120 00	3	10 00	2	65 00	2	11 00	....	.....	....	.....	....	.....	8	206 00
Engine Houses	1	5 00	1	5 00	2	15 00	1	5 00	2	10 00	2	10 00	....	.....	9	50 00
Engine, Gas, Horse Power	32	$ 32 00	33	$ 32 50	98	$ 93 00	6	$ 10 00	29	$ 28 50	33	$ 20 50	....	$.....	231	$ 216 50
Engine, Steam, Horse P.	59	39 50	205	194 52	27	37 00	71	72 29	71	79 95	14	17 00	30	53 75	477	494 01
Total Engine, Horse P.	91	$ 71 50	238	$ 227 02	125	$ 130 00	77	$ 82 29	100	$ 108 45	47	$ 37 50	30	$ 53 75	708	$ 710 51
Families	1729	6902 69	2849	11366 65	2282	9104 03	1909	7625 35	1696	6767 99	1747	6966 68	150	746 67	12362	49480 06
Fish Hatchery	....	.....	....	.....	....	.....	1	400 00	....	.....	....	.....	....	.....	1	400 00

Fish Markets	2	15 00	1	5 00					1	5 00	1	5 00			5	30 00
Fish Ponds							1	30 00							1	30 00
Fountains	2	775 52			2	8 00	3	644 53	2	16 00					9	1444 05
Fountains, Drinking	2	30 00	2	30 00	1	15 00	2	30 00	2	30 00	1	15 00	6	112 50	16	262 50
Fountain, Cuspidors			8	24 00	14	42 00	1	3 00							23	69 00
Freight Houses			1	15 00	1	5 00									2	20 00
Green Houses					2	82	4	10 35	3	5 40	2	2 45	8	17 92	19	36 94
Hand Basins	530	443 22	682	598 68	1373	1176 19	1005	828 18	259	234 35	314	279 51	43	41 46	4206	3601 59
Heating Boilers, Horse P.	260	58 34	611	113 17	686	141 67	537	134 25	264	55 35	249	35 60	108	33 74	2715	572 12
Horses	127	176 00	242	331 00	392	533 00	255	313 00	270	380 00	233	320 66	29	48 75	1548	2102 41
Laundries			3	15 00	3	15 00	2	10 00							8	40 00
Libraries	1	5 00													1	5 00
Lodging Rooms	175	167 00	224	218 50	273	271 84	185	184 00	36	31 33	63	34 49	11	13 75	967	920 91
Meat Markets	13	57 00	16	95 00	14	78 00	14	72 00	13	66 00	10	57 00			80	425 00
Milk Depots	1	5 00					2	10 00							3	15 00
Offices	93	287 21	152	467 50	113	375 67	74	260 00	5	15 00	3	11 00			440	1416 38
Opera Houses					1	10 00	1	10 00							2	20 00
Photograph Rooms			3	15 00	5	25 00	3	15 00	1	5 00	1	5 00			13	65 00
Printing Offices	3	20 00	2	10 00	4	30 00	1	5 00							10	65 00
Public Halls	11	46 00	16	75 00	14	75 00	5	25 00	5	25 00	5	21 67			56	267 67
Saloons	13	65 00	40	200 00	26	130 00	20	100 00	11	55 00	9	45 00	1	6 25	120	601 25
School Scholars	1167	101 71	2071	122 64	2351	210 50	964	92 74	1591	134 03	1174	87 93			9318	749 55
Slaughter Houses			1	8 00					4	23 00	1	8 00			6	39 00
Steamer U. S. Michigan							1	30 00							1	30 00
Stores	64	246 00	173	646 00	195	821 00	85	327 00	46	146 00	47	157 00	2	7 50	612	2350 50
SPRINKLERS. Adjoining Lot	29	$ 84 20	23	$ 71 20	39	$ 120 63	37	$ 113 00	15	$ 43 45	7	$ 22 10		$	150	$ 454 58
Curb	81	204 08	47	141 20	116	358 83	175	550 30	16	52 95	27	75 63	1	2 47	463	1385 46
Hydrant	31	167 18	47	227 94	50	255 69	82	335 04	37	178 65	52	182 10	2	22 50	301	1369 10
In House	80	265 30	84	281 87	43	138 50	61	198 80	70	224 90	72	233 77	15	32 99	425	1376 13
Lawn	67	143 99	65	195 88	162	407 74	142	344 43	72	197 05	93	215 96	37	64 91	638	1569 96
Sill Cock	628	1594 33	742	1969 40	1211	3071 91	911	2288 22	789	2076 45	753	1889 20	86	286 03	5120	13175 54
Total Sprinklers	916	$2459 08	1008	$2887 49	1621	$4353 32	1408	$3829 79	999	$2773 45	1004	$2618 76	141	$ 408 90	7097	$19330 77
Urinals	44	156 30	79	284 49	80	290 50	49	197 84	29	100 00	27	71 83	1	3 75	309	1104 71

ASSESSMENTS FOR 1905.

	WARDS.														TOTALS.	
	First.		Second.		Third.		Fourth.		Fifth.		Sixth.		Seventh.			
	No.	Amount	No.	Amount	No.	Amount	No.	Amount	No.	Amount	No.	Amount	No.	Amount.	No.	Amount
Wash Tubs	107	$ 147 67	46	$ 66 33	309	$ 438 33	334	$ 458 00	15	$ 21 00	49	$ 58 00	5	$ 8 75	865	$ 1198 08
Wash Tubs, Revolving	....	.....	....	.....	3	15 00	4	20 00	....	.....	....	.....	....	.....	7	35 00
Total Wash Tubs	107	147 67	46	66 33	312	453 33	338	478 00	15	21 00	49	58 00	5	8 75	872	1233 08
Water Closets, Closing	1083	3192 75	1619	4795 50	2369	6767 16	1606	4330 50	735	2142 00	814	2361 50	52	177 53	8278	23766 94
Water Closets, Non-Clos'g	5	36 00	24	50 00	20	51 34	4	24 00	1	6 00	....	.....	....	.....	54	167 34
Total Water Closets	1088	3228 75	1643	4845 50	2389	6818 50	1610	4354 50	736	2148 00	814	2361 50	52	177 53	8332	23934 28
Ware Houses	1	3 00	2	8 00	....	.....	....	.....	1	3 00	....	.....	....	.....	4	14 00
Water Motors	....	.....	2	6 67	7	36 00	3	15 00	....	.....	3	15 00	....	.....	15	72 67
Water Troughs	....	.....	6	60 00	1	10 00	2	15 00	8	80 00	2	20 00	....	.....	19	185 00
Work Shops	24	79 00	59	210 50	61	208 00	33	107 00	11	36 00	7	24 00	1	3 75	196	668 25
Yacht	....	.....	....	.....	....	.....	1	3 00	....	.....	....	.....	....	.....	1	3 00
Grand Totals for 1905	7047	17561 20	10891	25109 59	13679	29307 20	9565	23146 49	6552	14607 71	6250	14546 73	634	2080 18	54618	126359 10
Grand Totals for 1904	6739	16913 46	10923	24247 82	12791	28221 68	9089	22519 75	6037	13368 07	5839	13826 70	528	1768 72	51946	120866 20
Total Gain for 1905	308	647 74	....	861 77	888	1085 52	476	626 74	515	1239 64	411	720 03	106	311 46	2672	5492 90
Total Loss for 1905	....	.....	32	.....	....	.....	....	.....	....	.....	....	.....	....	.....	....	.....

RATES FOR CITY WATER.

Approved by Select Council, August 19, 1895.—Approved by Common Council, September 16, 1895.—Approved by the Mayor, September 21, 1895.

AND AS AMENDED AND APPROVED NOVEMBER 25, 1899.

Are All Annual Except as Otherwise Indicated, and Payable Quarterly in Advance, as Follows:

First Quarter—January, February, March—January 1st.

Second Quarter—April, May, June—April 1st.

Third Quarter—July, August, September—July 1st.

Fourth Quarter—October, November, December—October 1st.

If the rents for any quarter are not paid within the *first month thereof, five per cent.* may be added. If payment is not made by the 15th day of February, May, August and November of each quarter, the water may be turned off from the premises, and shall not be turned on again without the consent of the Commissioners of Water Works, until all back rents and penalties are paid, and the further sum of one ($1.00) dollar.

Acetylene Gas Machines, for each 50 light machine or less..$	2 00
Air Pump.....	3 00
Automobile	2 00
Bath Tub—Private (one family) first tub.....	3 00
Bath Tub—Private (one family) each additional tub.....	1 50
Bath Tub—Public, each tub.....	5 00
Bakery, per barrel of flour used (but no charge less than $5)..	01
Barber Shop, first chair, including hand basin.....	4 00
Barber Shop, each additional chair, including hand basin....	2 00

Billiard Tables, each	**$ 1 00**
Billiard tables, when floor is carpeted, one-half the above rate.	
Blacksmith Fire, first fire	**5 00**
Blacksmith Fire, each additional fire	**2 50**
Boarding House, (in addition to family rates) per room	**1 00**
Building Purposes, per bushel of lime; to be paid for before Work is begun	**02**
Butcher Stalls	**3 00 to 15 00**
Charitable Institutions, one-third annual rates.	
Cow	**75**
Condensing Boiler for Steam Heating, (per season of 6 months) per horse power	**25**
Eating Houses	**5 00 to 25 00**
Family	**4 00**
Fire Protection Fixtures, testing same, thirty (30) minutes or less	**3 00**
Fire Protection Fixtures, testing same, one (1) hour or less, but more than thirty (30) minutes	**5 00**
Flushing Sewers, settling earth in ditches or purposes of like nature, per hour, or fractional part of an hour, each	**5 00**
Gas Engines, five-horse power or less	**5 00**
Gas Engines, for each additional horse power	**1 00**
Gas Engines, when water is used over and over again, from tank prepared for the purpose, one-half the above rates.	
Hand Basins in dwellings, hotels and schools, first basin	**1 00**
Hand Basins in dwellings, hotels and schools, each additional basin	**50**
Hand basins in offices, stores and blocks, each	1 00
Hotels, (in addition to family rates) per room	1 00
Laundry, shop	5 00
Laundry, wash tub, stationary, each	2 00
Laundry, revolving washer, each	5 00
Livery Stable, per horse	2 00
Offices	3 00 to 10 00
Private Stable, one or two horses	2 00
Private Stable, each additional horse over two	1 00
Printing Offices	5 00 to 30 00
Public Halls	5 00 to 25 00
Saloon	5 00 to 25 00
School, per pupil (in addition to fixtures)	10
Slaughter Houses	5 00 to 50 00
Sleeping Rooms, each	1 00
Sprinkling Streets or Lawns with Hose, per Season:	
Corner lot, 41 feet front or less	5 00
Inside lot, 41 feet front or less	3 00
For each additional foot front to either corner or inside lot	05
Steam Engines, 10 hours per day, each Horse Power	2 50
Stores	3 00 to 15 00

Urinal, private, self-closing, (one family)	$ 2 00
Urinal, private, not self-closing (one family)	6 00
Urinal, public, self-closing	3 00
Urinal, public, not self-closing	10 00
Urinal, private or public, continuous flow	10 00 to 30 00
Wash Tub, Stationary, first tub (one family)	2 00
Wash Tub, Stationary, each additional tub (one family)	1 00
Water Closet, pan or tank, (one family) private	3 00
Water Closet, pan or tank, (one family) each additional water closet	1 50
Water Closet, pan or tank, public, each	5 00
Water Closet, hopper, (one family) private, for each water closet	6 00
Water Closet, hopper, public, for each water closet	10 00
Work Shop, ordinary use	3 00 to 5 00

Sprinkling for any purpose will ONLY be allowed on premises where water is taken and paid for, for domestic or other inside use. The sprinkling season is from May 1st to November 1st, in each year.

There is no fractional part of a sprinkling season.

It will cost as much to sprinkle but once at any time during the sprinkling season as it will to sprinkle each day, at the prescribed hours, during the entire season.

Sprinkling must be confined to the hours between 5 and 8 A. M., 12 and 1 P. M., and 5 and 8 P. M., nor during said intervals more than one hour at a time. Persons who exceed one hour may be charged at fountain rates or held liable for violation of the rules, at the option of the Commissioners.

The inside diameter of hose used for sprinkling purposes must not be more than three-quarters of an inch, and the inside diameter of the orifice to the nozzle of the same must not be more than one-quarter of an inch. The use of leaky or defective hose is prohibited.

No person will be allowed to sprinkle adjoining or opposite premises, nor to use the water from any hose attachment, or through any hose for any purpose not authorized by the Commissioners. All sprinkling devices not held in the hand when used shall be classed as fountains, or fountain jets, and assessed accordingly, *but not less than double sprinkling rates.*

Fountains, fountain jets, etc., will be assessed according to the inside diameter of its principal part or parts, and for a continuous flow during the entire sprinkling season.

Hose must not be used for cleaning streets or street gutters, for washing away collections of leaves, heaps of dirt or offal, or flooding streets.

Sprinkling fixtures, to which hose can be attached, no matter where located on any premises, makes said premises assessable for sprinkling.

All plumbing from the curb line inward must be done by a licensed plumber.

Water fixtures will be assessed for each and every purpose available, and for each family or establishment within the enclosure or separated only by a door, gateway or other means of easy communication.

No abatement of charges shall be allowed for vacancy of premises *except from the date that notice has been given at the office of the Commissioners of Water Works that they are unoccupied.*

The Commissioners may limit or stop the supply of water in cases of emergency, and shut it off for repairs or extensions, they being the judges of the time and necessity. Neither the Commissioners nor the City of Erie shall be liable in damages for any insufficient supply of City Water.

For each and every violation of the rules and regulations of the Water Works, the offending party will be subject to a fine of not less than five nor more than fifty dollars.

METER RATES.

Twenty (20) cents for each One Thousand (1,000) gallons for the first Twenty-five Thousand (25,000) gallons, and Four (4) cents for each One Thousand (1,000) gallons consumed thereafter during each current quarter.

PROVIDED, The minimum receipts from each meter (for each quarter) shall be as follows:

¾ inch or less	$ 3 75	1 inch	$ 4 50
1½ inch	6 25	2 inch	10 00
3 inch	18 75	4 inch	38 75
6 inch	$100 00		

TERMS: All water sold by meter Measurement must be paid for on or before THE TENTH DAY OF THE FIRST MONTH OF EACH QUARTER. All Meter accounts remaining unpaid at the close of business on the 10th day of said month, shall have Five Per Centum added thereto. On the 15th day of said month, WATER MAY BE TURNED OFF from the property whose Meter Account is unpaid, and will not be again turned on until all arrearages and penalties are paid, and the further sum of One ($1.00) Dollar.

STATEMENT OF WORK DONE BY INSPECTOR NO. 1 IN 1904.

MONTHS.	TURNED OFF ACCOUNT.			TURNED ON ACCOUNT.		NEW HOUSES.		FIXTURES.						TOTALS.
	Unpaid.	Vacancies.	Leaks and Waste.	Paid.	Occupied.	Building Purposes.	Completed.	Complaints.	Frozen.	Installed.	Removed.	Leaks and Waste.	Vacancies.	
January	.....	.....	.....	.....	25	8	20	5	90	93	52	2	.....	295
February	.....	.....	.....	.....	12	11	22	6	45	137	22	18	375	648
March	.....	.....	1	.....	20	8	21	4	39	131	20	12	.....	256
April	.....	.....	.....	.....	40	13	56	7	.....	171	59	4	.....	350
May	.....	.....	.....	.....	46	9	52	.....	.....	353	45	4	328	857
June	.....	.....	.....	.....	35	14	53	2	.....	303	19	2	.....	428
July	.....	.....	.....	.....	27	19	38	.....	.....	177	38	5	.....	304
August	1	.....	.....	.....	32	13	35	.....	.....	212	18	9	280	600
September	.....	.....	.....	.....	18	6	25	.....	.....	86	12	1	.....	148
October	.....	.....	.....	.....	20	13	67	.....	.....	134	32	1	.....	267
November	.....	.....	.....	.....	22	5	46	.....	.....	135	23	1	458	690
December	.....	.....	.....	.....	10	12	35	.....	.....	125	33	3	.....	218
Total	1	.....	1	.....	307	131	470	24	174	2057	373	62	1441	5041

STATEMENT OF WORK DONE BY INSPECTOR NO. 2 IN 1904.

MONTHS.	TURNED OFF ACCOUNT.			TURNED ON ACCOUNT.		NEW HOUSES.		FIXTURES.						TOTALS.
	Unpaid.	Vacancies.	Leaks and Waste.	Paid.	Occupied.	Building Purposes.	Completed.	Complaints.	Frozen.	Installed.	Removed.	Leaks and Waste.	Vacancies.	
January										2				2
February										10				10
March										6				6
April														
May														
June										6				6
July														
August	2									19				21
September										6				6
October														
November										19				19
December										10				10
Total	2									78				80

STATEMENT OF WORK DONE BY INSPECTOR NO. 3 IN 1904.

MONTHS.	TURNED OFF ACCOUNT.			TURNED ON ACCOUNT.		NEW HOUSES.		FIXTURES.						TOTALS.
	Unpaid.	Vacancies.	Leaks and Waste.	Paid.	Occupied.	Building Purposes.	Completed.	Complaints.	Frozen.	Installed.	Removed.	Leaks and Waste.	Vacancies.	
January														
February	1									13		1		15
March										5				5
April						1	1		2	13	2	2		21
May	2									22				24
June										3				3
July										8				8
August	1									14				15
September					3	2	14			28	4			51
October														
November										2				2
December										2				2
Total	4				3	3	15		2	110	6	3		146

1904. **Statement of Work Done at Annual Inspection by Inspector No. 2.** 1904.

WARD.	ENGINES.			FIXTURES.						SPRINKLERS.				TUBS.			WATER CLOSETS.		TOTAL.
	Air Pumps.	Gas.	Steam.	Draw Cocks.	Goose Necks.	Hydrants.	Hand Basins.	Heating Boilers.	Premises.	Curb.	Hydrant.	Lawn.	Sill Cock.	Bath.	Wash.	Urinals.	Non-Closing or Hopper.	Pan or Tank.	
First	15	3	3	2055	12	152	539	41	1675	81	31	67	628	498	109	44	5	1084	7042
Second	38	6	13	3289	12	275	672	49	2450	47	47	65	742	551	46	86	24	1521	9933
Fifth	11	5	3	1951	1	131	259	42	1625	16	37	70	789	360	15	29	1	735	6080
Seventh	.....	.....	1	122	.....	1	32	7	110	.....	1	7	64	28	5	.....	.....	42	420
Total	64	14	20	7417	25	559	1502	139	5860	144	116	209	2223	1437	175	159	30	3382	23475

1904. **Statement of Work Done at Annual Inspection by Inspector No. 3.** 1904.

Third	29	14	4	3185	4	166	1373	79	2226	116	50	162	1211	1108	312	80	20	2369	12508
Fourth	18	2	7	2429	8	202	1005	58	1835	175	82	142	911	830	338	49	4	1606	9701
Sixth	10	2	2	1983	4	151	314	19	1589	27	52	93	753	359	49	27	.....	814	6248
Seventh	1	.....	.....	62	.....	8	11	2	63	2	1	30	22	7	.....	1	.....	10	220
Total	58	18	13	7659	16	527	2703	158	5713	320	185	427	2897	2304	699	157	24	4799	28677

December 31, 1904.

YEAR.	Tons Coal Consumed.	Cost Coal from Jan. 1 to Dec. 31.	Grades of Bituminous Coal	Gallons of Water Pumped.	Increase or Decrease.	Number of places supplied.	No. of Fire Hydrants.	Average height of Water in Reservoir above surface of Bay.	Cost Coal per million gallons Pumped.	Gallons Pumped per pound of Coal.
1868...	591 1	$ 309 61	Lump.	.....	.....	.....	.....	.....	.....	.....
1869...	544 4	4,818 48	"	.....	.....	.....	.....	.....	.....	.....
1870...	1,064 5	5,159 10	"	246,648,960	.....	,218	97	232 0	.....	.....
1871...	1,422 7	7,117 00	"	279,368,495	32,719,535 *i*	727	99	232 0	$18 76	98 5
1872...	1,308 5	6,528 50	"	395,076,000	115,707,505 *i*	2,140	103	232 0	16 52	150 9
1873...	1,672 5	8,412 65	"	384,062,415	11,013,585 *d*	2,475	107	232 0	21 90	114 8
1874...	1,759 0	7,709 54	"	444,817,395	60,754,980 *i*	2,663	107	232 0	17 38	126 4
1875...	1,836 4	8,657 61	"	671,005,475	86,188,080 *i*	2,700	110	232 0	16 30	145 5
1876...	1,105 1	8,925 22	"	670,726,650	139,721,175 *i*	2,763	112	232 0	13 30	159 3
1877...	2,456 6	8,509 33	"	660,981,810	9,744,840 *d*	2,854	114	232 0	12 75	135 7
1878...	2,463 3	7,945 37	"	682,392,315	21,410,505 *i*	2,915	115	232 0	11 64	136 4
1879...	2,628 1	7,428 92	"	807,800,400	125,408,085 *i*	3,011	121	232 0	9 19	153 6
1880...	3,076 1	6,978 41	"	775,805,250	31,995,150 *d*	3,568	126	232 0	8 99	126 0
1881...	3,430 3	6,517 58	Slack.	975,640,934	219,835,684 *i*	4,110	161	232 0	6 68	142 2
1882...	2,968 2	5,355 93	"	829,759,260	145,881,674 *d*	4,687	171	234 0	6 45	139 7
1883...	2,398 2	3,908 59	"	815,939,685	13,819,575 *d*	5,077	197	234 7	4 66	170 0
1884...	3,010 8	4,502 61	"	917,781,350	101,841,665 *i*	5,395	248	234 3	4 99	152 4
1885...	3,243 8	4,575 79	"	1,036,496,665	118,715,315 *i*	5,658	270	232 9	4 40	159 7
1886...	3,369 0	4,318 64	"	1,117,389,075	80,892,410 *i*	6,140	280	233 3	3 86	165 8
1887...	2,820 4	3,589 31	"	1,218,213,688	100,824,613 *i*	6,368	318	234 1	2 95	216 0
1888...	2,392 3	2,545 46	"	1,341,708,002	123,494,314 *i*	6,600	333	234 6	1 89	192 1
1889...	2,446 0	2,661 12	"	1,475,358,220	133,650,218 *i*	7,086	346	235 2	1 80	301 5
1890...	2,583 6	3,052 89	"	1,659,625,551	184,267,331 *i*	7,728	372	236 9	1 81	322 4
1891...	3,120 7	3,941 53	"	1,807,038,580	147,413,029 *i*	8,255	393	237 3	2 18	291 42
1892...	3,658 0	4,807 11	"	2,047,993,505	240,954,925 *i*	8,998	415	237 4	2 35	279 43
1893...	4,693 5	6,218 95	"	2,333,638,610	285,645,105 *i*	9,687	444	236 5	2 66	248 6
1894...	2,960 0	4,423 59	"	1,816,596,518	517,042,092 *d*	10,680	479	236 6	2 43	306 8
1895...	3,541 5	4,377 16	"	1,975,396,305	158,797,787 *i*	.....	489	237 2	2 21	278 62
1896...	3,056 0	3,603 28	"	2,005,757,728	30,361,423 *i*	10,846	514	237 6	1 796	328 17
1897...	3,338 2	4,507 52	"	2,215,416,779	209,659,042 *i*	1 ,385	523	235 9	2 034	331 75
1898...	3,119 0	3,815 68	Miscel's.	2,270,520,528	55,103,758 *i*	1 ,739	543	235 6	1 68	363 98
1899...	3,819 1	4,633 06	Slack.	2,722,322,604	451,802,076 *i*	11,932	565	235 48	1 701	356 41
1900...	5,285 9	7,754 34	"	3,124,440,644	402,118,040 *i*	12,451	595	235 46	2 482	295 57
1901...	5,199 75	8,103 99	"	3,190,024,916	65,584,272 *i*	12,949	632	236 04	2 540	306 77
1902...	5,668 75	9,070 00	"	3,224,360,754	34,335,838 *i*	13,351	670	236 13	2 813	284 41
1903...	5,450 65	11,610 52	"	3,315,335,518	90,974,764 *i*	14,422	698	236 9	3 502	304 42
1904...	6,248 17	11,264 41	Nut & Slack	3,690,782,612	375,447,094 *i*	14,915	725	235 8	3 052	295 31

HIGH SERVICE SYSTEM, installed in 1899, comprises all the territory south of Nineteenth street. In this district the average lift in feet for 1904

PUMPING STATISTICS FOR 1904.

MONTHS.	No. 3 GASKILL. 5,000,000 Gallons. SERVICE.						No. 4 WORTHINGTON 12,000,000 Gallons SERVICE.		No. 5 WORTHINGTON. 8,000,000 Gallons. SERVICE.					
	HIGH.		LOW.		TOTAL.		LOW.		HIGH.		LOW.		TOTAL.	
	Days Run.	Gallons.	Days Run.	Gallons.	Days Run.	Gallons.	Days Run	Gallons.	Days Run.	Gallons.	Days Run.	Gallons.	Days Run.	Gallons.
January	31	125,953,464	...	...	31	125,953,464	...	...	...	...	31	218,310,576	31	218,310,576
February	2	5,333,510	...	...	2	5,333,510	29	219,238,944	29	122,733,600	...	...	29	122,733,600
March	...	...	...	...	...	...	31	196,214,472	31	120,802,208	...	...	31	120,802,208
April	30	100,681,490	...	...	30	100,681,490	30	190,536,600	...	...	...	...	...	...
May	31	104,514,410	...	...	31	104,514,410	31	191,502,600	...	...	...	...	...	...
June	30	108,819,802	...	...	30	108,819,802	30	203,968,968	...	...	...	...	...	...
July	31	116,673,648	...	...	31	116,673,648	31	203,669,232	...	...	...	...	...	...
August	26	95,975,880	...	...	26	95,975,880	31	194,260,944	6	19,008,792	...	...	6	19,008,792
September	22	81,462,290	...	...	22	81,462,290	29	161,776,296	17	39,928,152	...	...	17	39,928,152
October	26	85,754,942	...	...	26	85,754,942	31	164,776,968	8	27,289,416	...	...	8	27,289,416
November	30	96,483,842	...	...	30	96,483,842	30	178,345,680	2	6,597,888	...	...	2	6,597,888
December	19	61,232,990	...	...	19	61,232,990	31	211,461,246	14	37,473,744	...	...	14	37,473,744
Total	278	982,886,268	...	...	278	982,886,268	334	2,115,751,968	107	373,833,800	31	218,310,576	138	592,144,376
Daily Ave.	...	3,535,562	...	...	...	3,535,562	...	6,334,586	...	3,493,773	...	7,042,276	...	4,290,901

PUMPING STATISTICS FOR 1904—Continued.

MONTHS.	ENGINES. TOTAL SERVICE. HIGH. Days Run	ENGINES. TOTAL SERVICE. HIGH. Gallons.	ENGINES. TOTAL SERVICE. LOW. Days Run	ENGINES. TOTAL SERVICE. LOW. Gallons.	TOTAL. Days Run	TOTAL. Gallons.	DAILY AVERAGE FOR EACH MONTH.	AVERAGE LIFT IN FEET. SERVICE. HIGH.	AVERAGE LIFT IN FEET. SERVICE. LOW.
January	31	125,953,464	31	218,310,576	31	344,264,040	11,105,291	273,98	236,36
February	29	128,067,110	29	219,238,944	29	347,306,054	11,976,070	279,74	235,81
March	31	120,802,208	31	196,214,472	31	317,016,680	10,226,344	280,96	236,20
April	30	100,681,490	30	190,536,600	30	291,218,090	9,707,269	276,99	235,34
May	31	104,514,410	31	191,502,600	31	296,017,010	9,548,935	279,20	233,34
June	30	108,819,802	30	203,968,968	30	312,788,770	10,426,292	277,20	235,29
July	31	116,673,648	31	203,669,232	31	320,342,880	10,333,641	277,00	235,41
August	31	114,984,672	31	194,260,944	31	309,245,616	9,975,665	277,65	235,53
September	30	121,390,442	30	161,776,296	30	283,166,738	9,438,891	264,49	235,20
October	31	113,044,358	31	164,776,968	31	277,821,326	8,961,978	264,44	236,24
November	30	103,081,730	30	178,354,680	30	281,427,410	9,380,913	277,13	237,86
December	31	98,706,734	31	211,461,264	31	310,167,998	10,005,419	277,63	237,42
Total	366	1,356,720,068	366	2,334,062,544	366	3,690,782,612	.....	.....	.....
Daily Average	...	3,706,885	...	6,377,220	...	10,084,105	.....	275,53	235,83

DESCRIPTION OF RESERVOIR, STAND PIPE, BOILER HOUSE, ENGINES, INTAKE PIPES AND SWIMMING POOL.

Reservoir.

The reservoir was constructed in 1873 and is about two miles distant from the pumping station, the bottom of which is 210 feet above the zero level of the water in the bay, and when the water is carried to a depth of 27 feet, holds 32,952,934 gallons of water.

Stand Pipe.

The stand pipe was erected in 1868. It is five feet in diameter and 259.65 feet in height. A spiral staircase surrounds it and all enclosed in brick. So far as we know, this is the tallest stand pipe in the world.

Boiler House.

The boiler house was erected in 1897 and is 74 feet wide, 102 feet long, and 25 feet from floor line to bottom of cords to roof. On the north side eight horizontal tubular boilers are installed in batteries of two each. The boilers are 72 inches in diameter, 18 feet long, without domes, and contain 80 4-inch lap welded tubes, capable of carrying 150 lbs. pressure to the square inch.

On the south side of the house can be erected an equal number of the same size boilers, but until these are required the room is used for storing coal; the (5) bins now in place hold 1200 tons of coal.

On the north side of the boiler house, near the east end, is a self-sustaining steel plate chimney, 175 feet high, 75 inches internal diameter, lined with fire-brick to a height of 85 feet. The chimney was erected in 1897.

Engines.

There are five pumping engines.

Nos. 1 and 2 are Cornish Bull Pumps, erected in 1868; alike in their dimension, which are as follows: Steam cylinders, 60 inches in diameter; Pump Plunger, 20¼ inches in diameter, each 10-foot stroke, capacity being 165 gallons per stroke, pumping 2,000,000 gallons daily. These pumps are out of commission, the cost for repairs being greater than they are worth.

No. 3 is a Gaskill Horizontal Compound Pumping Engine, erected in 1886, having two H. P. Cylinders, 21 inches in diameter, two L. P. Cylinders, 42 inches in diameter, two pumps 19½ inches in diameter, all 36-inch stroke; capacity being 182 gallons per revolution, pumping 5,000,000 gallons daily.

No. 4, is a Worthington Horizontal Compound High Duty Pumping Engine, erected in 1893, having two H. P. Cylinders, 33 inches in diameter, two L. P. Cylinders, 66 inches in diameter, two pumps, 29 inches in diameter, all 49¾-inch stroke; capacity being 552 gallons per stroke; pumping 12,000,000 gallons per day, at a piston speed of 128 feet per minute, against a head of 260 feet.

No. 5, is a Worthington Horizontal Compound High Duty Pumping Engine, erected in 1899, having two H. P. Steam Cylinders, each 25 inches in diameter; two L. P. Cylinders, each 50 inches in diameter, two double acting water plungers, each 23 inches in diameter, all 36-inch stroke; capacity being 264 gallons per stroke, pumping 8,000,000 gallons per day, at a piston speed of 136 feet per minute, against a total load of 142 pounds per square inch (a head of 328 feet).

The regular employes at the pumping station are, one superintendent, one machinist, three engineers, three greasers, three firemen, two assistant firemen, one watchman and keeper of grounds and one janitor. The engineers stand a watch of eight hours each.

Intake Pipes.

There are two intakes, one constructed in 1868, of which 52 feet is brick, 14 feet in diameter, 590 feet is wood 4¼ feet in diameter, and 333 feet is boiler iron 4 feet in diameter, making a total length of 975 feet. The top of the outer end of this intake is four feet below the zero level of the bay, and as it approaches the shore ascends until the top is only two feet above the zero level of the bay. This intake has not been used since the new one was completed, and as the part made of wood has not been submerged for some time it is undoubtedly past use.

The second intake was completed in 1896. It is made of cast iron, 60 inches internal diameter, 8,307.18 feet long, buried in the bottom of the bay; at no place is there less than three feet of earth over its top. The outer end terminates in an octagonal crib, 40 feet being its extreme width, and 8 feet high, the top being 13 feet below zero level of the bay. So far as we know, this is the longest single piece of submerged 60-inch cast iron pipe in the world.

Swimming Pool.

The Swimming Pool was built on land reclaimed at the foot of Chestnut street, near the Pumping Station, in the early part of 1902. The interior of the pool covers a space 75 feet wide and 155 feet long, lined with Portland Cement. The depth of water ranges from 1 6-12 to 6 9-12 feet, and is supplied from a four-inch water pipe. On the west side of the Pool, there are thirty-four cabinets, each 3½ x 5 feet, also an attendant's room 15 x 5 feet.

FIRE HYDRANTS PLACED IN 1904.

STREET.	LOCATION.	SIZE. Inches.	STYLE.	REMARKS.
Front	5 feet East of the East line of Walnut	6	Mathews	
Fifth	6.10 feet West of the West line of German	6	"	
Fifth	82.10 ft. West of the West line of Sassafras	4	"	
East Lake Road	1200 ft. East of the East line of Payne Ave	6	"	
Sixth	5.6 ft. West of the West line of Ash	6	"	In place of 4" Ludlow taken out.
South Park Avenue	5 ft. West of the West line of Poplar	6	"	
Eighth	3.7 ft. East of the East line of Cherry	6	"	In place of 4" Bay State taken out.
Eighth	12.9 ft. East of the East line of Ash	6	"	In place of 4" Bay State taken out.
Ninth	5 ft. East of the East line of Cranberry	6	"	
Ninth	5 ft. West of the West line of Plum	6	"	
Ninth	307 ft. East of the East line of Hess Ave.	6	"	
Tenth	5 ft. West of the West line of Liberty	6	"	
Tenth	331.2 ft. East of the East line of Raspberry	6	"	
Eleventh	5 ft. West of the West line of Plum	6	"	
Eleventh	5 ft. East of the East line of Raspberry	6	"	
Fifteenth	6.4 ft. West of the West line of Ash	4	"	In place of 4" Bay State taken out.
Fifteenth	4.6 ft. West of the West line of Wallace	6	"	
Sixteenth	136.6 ft. West of the West line of German	6	"	Three Way Hydrant.
Sixteenth	330.6 ft. East of the East line of Holland	6	"	Three Way Hydrant taken out.
Sixteenth	180 ft. East of the East line of Cranberry	6	"	In place of 4" Pittsburg taken out.
Eighteenth	19 ft. East of the East line of Cascade	6	"	In place of 4" Bay State taken out.
Twentieth	5 ft. East of the East line of Commercial.	6	"	
Twentieth	5 ft. West of the West line of Parade	6	"	
Twentieth	213.7 ft. West of the West line of German	6	"	
Twenty-first	206 ft. West of the West line of Raspberry	4	"	In place of 4" Pittsburg taken out
Twenty-third	305 ft. West of the West line of East Avenue	4	"	
Twenty-third	134 ft. West of the West line of French	4	"	Taken out.
Twenty-third	336 ft. West of the West line of Plum	6	"	Taken out.
Twenty-third	253 ft. East of the East line of Cascade	6	"	

Twenty-fifth	261 ft. East of the East line of Perry	4	"		Taken out.
Twenty-seventh	5 ft. East of the East line of Wallace	6	"		In place of 4" Pittsburg taken out.
Payne Avenue	5 ft. North of the North line of Ninth	6	"		
Warfel Avenue	5 ft. South of the South line of Buffalo Road	6	"		
East Avenue	61 ft. South of the South line of Fifteenth	6	"		Three Way Hydrant.
Perry	149 ft. North of North line of Twenty-third	6	"		
Wayne	215.3 ft. South of the South line of Fourteenth	6	"		In place of 4" Bay State taken out.
Ash	5 ft. South of the South line of Fourth	6	"		
French Road	5 ft. South of the South line of Sechrist Lane	6	"		
French Road	51.6 ft. North of the City line	6	"		Three Way Hydrant.
Holland	5 ft. North of the North line of Eighteenth	6	"		In place of 4" Bay State taken out.
French	404 ft. North of the North line of Second	6	"		
French	39 ft. South of the South line of Nineteenth	6	"		
French	5 ft. South of the South line of Twenty-second	6	"		
Myrtle	5 ft. North of the North line of Seventeenth	6	"		
Cochran	5 ft. South of the South line of Twenty-ninth	6	"		In place of 4" Pittsburg taken out.
Hickory	11 ft. South of the South line of Sixteenth	6	"		In place of 4" Bay State taken out.
Walnut	246.6 ft. North of the North line of Huron	6	"		
Plum	5 ft. North of the North line of Twenty-fourth	6	"		Three Way Hy't in place of 4" Pitts. taken out.
Plum	5 ft. North of the North line of Seventh	6	"		In place of 4" Mathews taken out.
Cascade	118 ft. North of the North line of Eighth	6	"		Taken out.
Raspberry	95 ft. South of the South line of Twenty-eight	6	"		

SUMMARY OF
FIRE HYDRANTS PLACED AND REMOVED IN 1904.

Placed.

STYLE.—	SIZE.	NUMBER.	
Mathews	4-inch.	4	
Mathews	6-inch.	42	46

Removed.

STYLE.—	SIZE.	NUMBER.	
Bay State	4-inch,	7	
Ludlow	4-inch	1	
Pittsburg	4-inch.	5	
Mathews	4-inch.	3	
Mathews	6-inch.	3	19
Net Increase			27
Number in use December 31, 1903			698
Total in use December 31, 1904			725

STOP VALVES PLACED IN 1904.

STREET.	WHERE LOCATED.	SIZE.	STYLE.	REMARKS.
Short	14.6 ft. North of the South line of Short. 13.10 ft. East of the West line of Chestnut	4-inch	Eddy	
Third	14.4 ft. West of the West line of Holland 13.6 ft. South of the North line of Third	1½-inch	Hays	
Third	11 ft. East of the East line of Chestnut 13.3 ft. South of the North line of Third	1½-inch	Hays	
Third	10.5 ft. West of the West line of Sassafras 13.7 ft. South of the North line of Third	1½-inch	Hays	
Fourth	West line of Liberty	4-inch	Eddy	Taken out.
East Lake Road	706 ft. East of the East line of Payne Ave	6-inch	Eddy	
Sixth	8 ft. West of the West line of Holland 29.3 ft. South of the North line of Sixth	1½-inch	Hays	
Seventh	West line of Wallace	4-inch	Eddy	
Seventh	101.8 ft. West of the West line of State 1.6 ft. South of the South line of Seventh	¾-inch	Hays	
Eighth	East line of Wallace	6-inch	Eddy	
Eighth	West line of Wallace	6-inch	Eddy	In place of 4" Eddy taken out.
West Lake Road	1981.6 ft. West of East line of Cranberry 5 ft. South of North line of West Lake Road	1½-inch	Hays	
Ninth	East line of Wallace	6-inch	Eddy	In place of 4" Eddy taken out.
Ninth	West line of Wallace	6-inch	Eddy	
Ninth	89 ft. West of the West line of Holland	4-inch	Eddy	
Ninth	West line of Chestnut	4-inch	Eddy	In place of 4" Ludlow taken out.
Tenth	East line of Poplar	6-inch	Eddy	
Tenth	West line of Liberty	6-inch	Eddy	
Twelfth	12 ft. West of the West line of Holland 31 ft. South of the North line of Twelfth	1½-inch	Hays	
Twelfth	15.6 ft. West of the West line of Chestnut. 16 ft. South of the North line of Twelfth	1½-inch	Hays	
Thirteenth	West line of Ash	6-inch	Eddy	
Thirteenth	West line of Wallace	6-inch	Eddy	

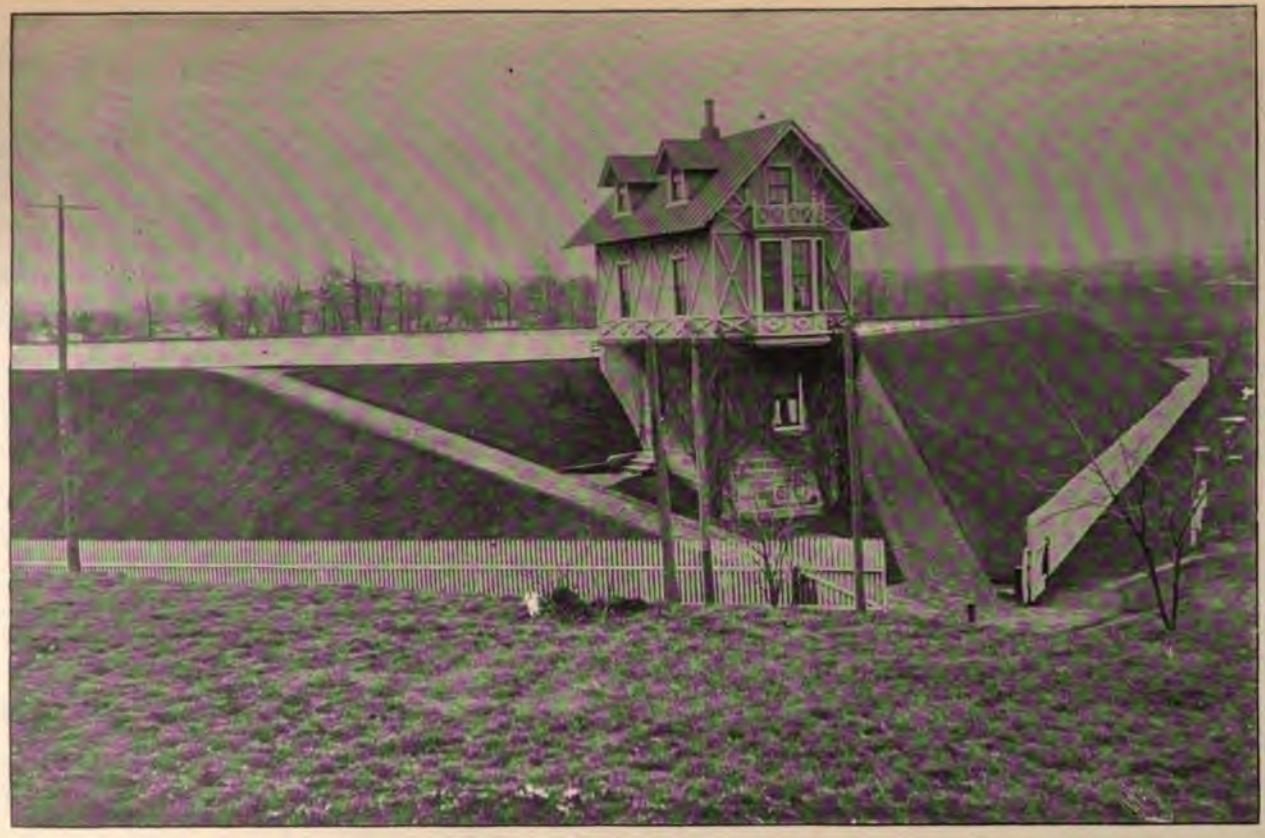
STOP VALVES PLACED IN 1904—Continued.

STREET.	WHERE LOCATED.	SIZE.	STYLE.	REMARKS.
Fourteenth	East line of Wallace	6-inch	Eddy	In place of 4" Eddy taken out.
Fourteenth	West line of Wallace	6-inch	Eddy	
Fifteenth	West line of Wallace	6-inch	Eddy	In place of 4" Eddy taken out.
Seventeenth	East line of Chestnut	6-inch	Eddy	In place of 4" Ludlow taken out.
Seventeenth	West line of Chestnut	6-inch	Eddy	In place of 4" Ludlow taken out.
Seventeenth	20.8 ft. West of the East line of Chestnut	6-inch	Eddy	
Seventeenth	14 ft East of the West line of Chestnut	4-inch	Eddy	Taken out
Eighteenth	East line of Cascade	6-inch	Eddy	In place of 6" Ludlow taken out.
Eighteenth	668.7 ft East of the East line of Wayne 18 ft. South of the North line of Eighteenth	6-inch	Eddy	
Twentieth	West line of German	6-inch	Eddy	
Twentieth	East line of Wayne	6-inch	Eddy	
Twentieth	East line of German	6-inch	Eddy	
Twentieth	West line of Parade	6-inch	Eddy	
Buffalo Road	West line of Pennsylvania Ave	6-inch	Eddy	
Buffalo Road	East line of Warfel Ave	6-inch	Eddy	
Twenty-second	13.3 ft. East of the East line of Holland 13.9 ft. South of North line of Twenty-sec'd	1½-inch	Hays	
Twenty-third	East line of State	6-inch	Eddy	
Twenty-third	East line of Perry	6-inch	Eddy	
Twenty-third	West line of Perry	6-inch	Eddy	
Twenty-fifth	West line of East Ave	6-inch	Eddy	
Twenty-sixth	20.8 ft. West of the West line of Peach 14.9 ft. South of the North line of 26th	1½-inch	Hays	
Twenty-ninth	East line of Hazel	6-inch	Eddy	
Warfel Avenue	South line of Buffalo Road	6-inch	Eddy	
Commercial Avenue	94 ft. North of the North line of Nineteenth 18 ft. West of the East line of Commercial	12-inch	Eddy	
Pennsylvania Ave	North line of Buffalo Road	12-inch	Eddy	
East Avenue	20 ft. North of the North line of Fifteenth	12-inch	Eddy	
East Avenue	276.6 ft. North of the North line of Nineteenth 32 ft. West of the East line of East Avenue	6-inch	Eddy	

East Avenue	201 ft. North of the North line of Nineteenth	12-inch	Eddy	
Reed	5 ft. South of the South line of Sixth 13.3 ft. West of the East line of Reed	1½-inch	Hays	
Reed	North line of Twelfth.	6-inch	Eddy	
Reed	10 ft South of the South line of Tenth 9 ft. West of the East line of Reed	1½-inch	Hays	
Reed	16.6 ft. South of the South line of Eighteenth 13.3 ft. West of the East line of Reed	1½-inch	Hays	
Ash	North line of Twelfth	6-inch	Eddy	
Ash	South line of Twelfth	6-inch	Eddy	
Wallace	South line of Twelfth	6-inch	Eddy	
Wallace	South line of Eighth	4-inch	Eddy	Taken out.
Wallace	North line of Ninth	6-inch	Eddy	
French Road	South line of Twenty-eighth	6-inch	Eddy	
French Road	South line of Twenty-ninth	6-inch	Eddy	
French	16 ft. North of the North line of Sixteenth 17.3 ft. West of the East line of French	6-inch	Pratt & Cady	
State	North line of Twenty-third	6-inch	Eddy	In place of 4" Eddy taken out.
Peach	20.6 ft. South of North line of Twenty-sec'd 5.9 ft West of the East line of Peach	1½-inch	Hays	
Chestnut	North line of Twenty-sixth	6-inch	Eddy	
Chestnut	85 ft. South of the South line of Twelfth 26.6 ft. East of the West line of Chestnut	6-inch	Eddy	In place of 4" Eddy taken out.
Chestnut	South line of Seventeenth	4-inch	Eddy	
Chestnut	North line of Seventeenth	4-inch	Eddy	
Chestnut	6 ft. South of the South line of Twelfth	30-inch	Rensselaer	
Chestnut	20.4 ft. West of the East line of Chestnut 17.6 ft. North of the South line of Seventeenth	4-inch	Eddy	Taken out.
Chestnut	7 ft. South of the South line of Twelfth	30-inch	Eddy	Taken out.
Chestnut	85 ft. South of the South line of Twelfth 18.6 ft. West of he East line of Chestnut	6-inch	Eddy	In place of 4" Eddy taken out.
Maple	North line of Twenty-ninth	4-inch	Eddy	
Walnut	North line of Second	4-inch	Eddy	
Poplar	North line of Twelfth	6-inch	Eddy	
Cascade	South line of Seventh	6-inch	Eddy	
Raspberry	North line of Twenty-eighth	6-inch	Eddy	
Raspberry	South line of Tenth	6-inch	Eddy	

STATEMENT OF STOP VALVES.

	STYLE.	SIZE IN INCHES.														
		¾	1	1¼	1½	2	4	6	8	12	20	24	30			
	Boston	....	....	....	....	....	....	....	....	....	1	....	1	....	[illegible]	
	Curtis	....	....	....	....	....	....	2	....	....	....	....	....	....	2	
	Eddy	....	....	....	....	....	356	748	14	117	14	1	7	2	1259	
	Jarecki & Hays	12	8	....	10	32	....	....	....	....	....	....	....	....	62	
	Ludlow	....	....	....	....	....	86	50	....	3	11	....	....	....	150	
	Pratt & Cady	....	....	....	....	....	....	2	4	3	....	....	....	....	9	
	Hays	1	1	....	....	2	....	....	....	....	....	....	....	....	4	
	LoetzerAirVlve.	1	....	....	....	....	....	....	....	....	....	....	....	....		
Stop Valves in use Dec. 31, 1903	Total	14	9	....	1[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1	8	2		1489
Stop Valves placed in 1904	Eddy	....	....	....	....	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	....	....	....	57	
	Pratt & Cady	....	....	....	....	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	....	....	....	1	
	Hays	1	....	....	13	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	....	....	....	14	
	Rensselaer	....	....	....	....	....	....	....	....	....	....	....	1	....	1	
	Total	1	....	....	13	....	8	46	....	4	....	....	1	....		73
	Total	15	9	....	23	34	450	848	18	127	26	1	9	2		1562
Stop Valves removed in 1904	Eddy	....	....	....	....	....	11	....	....	....	....	....	1	....	12	
	Ludlow	....	....	....	....	....	3	1	....	....	....	....	....	....	4	
	Total	....	....	....	....	....	14	1	....	....	....	....	1	....		16
Total Stop Valves in use December 31, 1904	Total	15	9	....	23	34	436	847	18	127	26	1	8	2		1546



Reservoir.

MAIN PIPE LAID IN 1904.

STREET.	LOCATION.	SIZES.								REMARKS.
		¾ in.	1 in.	1½ in.	2 in.	4 in.	6 in.	8 in.	12 in.	
		Ft. In.	Ft. In.	Ft. In.	Ft. In.	Ft. In.	Ft. In.	Ft. In.	Ft. In.	
East Public Dk	554 ft. East of the east line of State eastwardly				66					
Front	5 ft. East of the east line of Walnut southwardly						10			Hydrant Branch.
Front	500 ft. West of the west line of Chestnut westwardly					191				
Third	10.5 ft. West of the west line of Sassafras northwardly			6 8						Hydrant Branch for Cart Sprinkler.
Third	11 ft. East of the east line of Chestnut northwardly			6 5						Hydrant Branch for Cart Sprinkler.
Third	14.4 ft. West of the west line of Holland northwardly			6 9						Hydrant Branch for Cart Sprinkler.
Fifth	6.10 ft. West of the west line of German northwardly						4 4			Hydrant Branch.
East Lake Road	1200 ft. East of the east line of Payne Ave. northwardly						8 4			Hydrant Branch.
East Lake Road	700 ft. East of the east line of Payne Ave. eastwardly						500			
Sixth	13.10 ft. West of the west line of Holland eastwardly			7 10						Hydrant Branch for Cart Sprinkler.
South Park Ave	5 ft. West of the west line of Poplar northwardly						1 9			Hydrant Branch.
Seventh	101 ft. West of the west line of State southwardly	126 6								
Eighth	3.7 ft. East of the east line of Cherry northwardly						7			In place of 4" H. B. taken up.

Eighth	12.9 ft. East of the east line of Ash northwardly						8 6			In place of 4" H. B. taken up.
Eighth	From the east line of Wallace westwardly						61			In place of 61 ft. of 4" pipe taken up.
W. Lake Road	1981.6 ft. West of the east line of Cranberry northwardly			10 10						Hydrant Branch for Cart Sprinkler.
W. Lake Road	1908 ft. West of the east line of Cranberry westwardly						75			
Ninth	307 ft. East of the east line of Hess Ave. northwardly						9			Hydrant Branch.
Ninth	5 ft. West of the west line of Plum northwardly						6			Hydrant Branch.
Ninth	5 ft. East of the east line of Cranberry northwardly						8 6			Hydrant Branch.
Ninth	21 ft. West of the east line of Payne Ave. westwardly						365			
Ninth	From the East line of Wallace westwardly						60			In place of 60 ft. of 4" pipe taken up.
Tenth	3 ft. East of the east line of Cranberry westwardly						24			
Tenth	5 ft. West of the west line of Liberty northwardly						4			Hydrant Branch.
Tenth	331.4 ft. East of the east line of Raspberry northwardly						4 4			Hydrant Branch.
Tenth	160 ft. West of the west line of Cherry bet. Cherry and Poplar	159 4								For Lawn Sprinkler in Park
Tenth	160.8 ft. East of the east line of Poplar bet. Poplar & Cherry	159 4								For Lawn Sprinkler in Park
Tenth	160 ft. East of the east line of Liberty bet. Poplar & Lib'y	159 4								For Lawn Sprinkler in Park
Tenth	165.8 ft. West of the west line of Liberty bet. Lib'y & Plum	159 4								For Lawn Sprinkler in Park
Tenth	159.7 ft. West of the west line of Plum bet. Plum & Cascade	159 4								For Lawn Sprinkler in Park
Tenth	159.4 ft. East of the east line of Cascade bet. Plum & Cascade	159 4								For Lawn Sprinkler in Park

MAIN PIPE LAID IN 1904—Continued.

STREET.	LOCATION.	SIZES. ¾ in. Ft. In.	1 in. Ft. In.	1½ in. Ft. In.	2 in. Ft. In.	4 in. Ft. In.	6 in. Ft. In.	8 in. Ft. In.	12 in. Ft. In.	REMARKS.
Tenth	160 ft. West of the west line of Cascade bet. Cascade & Rasp	159 4								For Lawn Sprinkler in Park
Tenth	159.5 ft. East of east line of Raspb'y bet. Cascade & Rasp	159 4								For Lawn Sprinkler in Park
Tenth	158.7 ft. West of west line of Rasp'y bet. Rasp. & Cranb'y	159 4								For Lawn Sprinkler in Park
Tenth	158.6 ft. East of east line of Cranb'y bet. Rasp.&Cranb'y	159 4								For Lawn Sprinkler in Park
Eleventh	5 ft. East of the east line of Cascade westwardly						26			
Eleventh	589 ft. West of the west line of Cascade westwardly						67			
Eleventh	5 ft. West of the west line of Plum northwardly						6			Hydrant Branch.
Eleventh	5 ft. East of the east line of Raspberry northwardly						8 6			Hydrant Branch.
Twelfth	15.6 West of the west line of Chestnut northwardly			11						Hydrant Branch for Cart Sprinkler.
Twelfth	12 ft. West of the west line of Holland southwardly			5 5						Hydrant Branch for Cart Sprinkler.
Thirteenth	21 ft. West of the east line of Wallace westwardly						39			In place of 39 ft. of 4" pipe taken up.
Fourteenth	2 ft. East of the east line of Wallace westwardly						62			In place of 62 ft. of 4" pipe taken up.
Fifteenth	East line of Wallace westwardly						64			In place of 64 ft. of 4" pipe removed.

Fifteenth	6.4 ft. West of the west line of Ash northwardly					7				Hydrant Branch.
Fifteenth	4.6 ft. West of the west line of Wallace northwardly						9 5			In place of 4″ Hydrant Branch removed.
Sixteenth	316.6 ft. West of the west line of German northwardly						5 6			Hydrant Branch.
Sixteenth	330.6 ft. East of the east line of Holland northwardly									A 6″ Hydrant Branch 5.6 ft. taken up.
Sixteenth	180 ft. East of the east line of Cranberry northwardly						8 6			Hydrant Branch.
Sixteenth	21 ft. West of the east line of Cherry eastwardly									497.6 ft. of 1″ pipe abandoned.
Seventeenth	1 ft. East of the east line of Chestnut westwardly						62			In place of 62 ft. of 4″ pipe taken up.
Eighteenth	644 ft. East of the east line of Wayne eastwardly						737			
Eighteenth	19 ft. East of the east line of Cascade northwardly						9			6.7 ft. 4″ H. B. taken up.
Nineteenth	79 ft. East of the east line of Raspberry eastwardly						24			
Nineteenth	31 ft. East of the east line of Reed eastwardly						24			
Nineteenth	103 ft. East of the east line of Raspberry northwardly						8 8			Hydrant Branch.
Nineteenth	79 ft. East of the east line of Raspberry northwardly									8.8 ft. 6″ H. B. taken up.
Twentieth	21 ft. West of the east line of German westwardly						285			
Twentieth	21 ft. West of the east line of German eastwardly						298			
Twentieth	277 ft. East of the east line of German eastwardly						230			
Twentieth	507 ft. East of the east line of German eastwardly						227			
Twentieth	21 ft. West of the east line of Wayne eastwardly						225			

MAIN PIPE LAID IN 1904—Continued.

STREET.	LOCATION.	SIZES.								REMARKS.
		¾ in.	1 in.	1½ in.	2 in.	4 in.	6 in.	8 in.	12 in.	
		Ft. In.	Ft. In.	Ft. In.	Ft. In.	Ft. In.	Ft. In.	Ft. In.	Ft. In.	
Twentieth.....	204 ft. East of the east line of Wayne eastwardly.....	.....	.....	.....	.....	.....	222	.....	.....	
Twentieth.....	18 ft. West of the east line of Commercial eastwardly....	.....	.....	.....	.....	.....	.....	.....	406	
Twentieth.....	213.7 ft. West of the west line of German southwardly....	.....	.....	.....	.....	.....	5 6	.....	.....	Hydrant Branch.
Twentieth.....	5 ft. West of the west line of Parade southwardly.....	.....	.....	.....	.....	.....	3 6	.....	.....	Hydrant Branch.
Twentieth.....	5 ft. West of the west line of Perry southwardly	.....	.....	.....	.....	.....	7	.....	.....	Hydrant Branch.
Twentieth.....	190 ft. West of the west line of Perry southwardly.....	.....	.....	.....	.....	.....	.....	.....	.....	8.6 ft. 6″ H. B. taken up.
Twentieth.....	5 ft. East of the east line of Commercial northwardly ..	.....	.....	.....	.....	.....	9	.....	.....	Hydrant Branch.
Buffalo Road ..	23 ft. West of the east line of Penn'a Ave. eastwardly....	.....	.....	.....	.....	.....	.....	.....	40 6	
Buffalo Road ..	14 ft. West of the west line of Penn'a Ave. eastwardly....	.....	.....	.....	.....	.....	65	.....	.....	
Buffalo Road ..	21 ft. West of the east line of Warfel ave. eastwardly....	.....	.....	.....	.....	.....	194	.....	.....	
Buffalo Road ..	14 ft. West of the west line of Penn'a Ave. eastwardly....	.....	.....	.....	.....	.....	.....	.....	.....	285 ft. of 6″ pipe taken up.
Twenty-second	13.3 ft. East of the east line of Holland northwardly.....	.....	.....	7 9	.....	.....	.....	.....	.....	Hydrant Branch for Cart Sprinkler.
Twenty-second	18 ft. West of the east line of Chestnut eastwardly.....	.....	.....	.....	.....	.....	6 2	.....	.....	In place of 6.6 ft. of 4″ pipe taken up.

Twenty-third ..	5 ft. West of the west line of Perry eastwardly						415			
Twenty-third ..	135 ft. West of the west line of French westwardly						94			
Twenty-third .	336 ft. West of the west line of Plum westwardly						72			
Twenty-third ..	18 ft. West of the east line of Chestnut eastwardly						6 2			In place of 6.2 ft. of 4″ pipe taken up.
Twenty-third ..	253 ft. East of the east line of Cascade northwardly						10			Hydrant Branch.
Twenty-third ..	305 ft. West of the west line of East Avenue northwardly									9 ft. 6″ H. B. taken up.
Twenty-third .	134 ft West of the west line of French northwardly									8 ft. 6″ H. B. taken up.
Twenty-third .	336 ft. West of the west line of Plum northwardly									10 ft. 6″ H. B. taken up.
Twenty-fifth...	261 ft. East of the east line of Perry eastwardly						429			8.6 ft. 6″ H. B. taken up.
Twenty-fifth...	200 ft. East of the east line of Chestnut eastwardly						239			In place of 239 ft. of 2″ pipe taken up.
Twenty-sixth ..	20.8 ft West of the west line of Peach northwardly			10 6						Hydrant Branch for Cart Sprinkler.
Twenty-sixth ..	125 ft. East of the east line of Cascade eastwardly						28 2			
Twenty-sixth ..	1203 ft. West of the west line of Cranberry westwardly	237								For Watering Trough.
Twenty-seventh	5 ft. East of the east line of Wallace northwardly						9			Hydrant Branch.
Twenty-ninth..	18 ft. West of the east line of Maple westwardly						315			
Payne Avenue .	5 ft. North of the north line of Ninth eastwardly						8 9			Hydrant Branch.
Warfel Avenue	5 ft. South of the south line of Buffalo Road eastwardly						9			Hydrant Branch.
Penn'a Avenue	39 ft. North of the south line of Twentieth southwardly								268	

MAIN PIPE LAID IN 1904—Continued.

STREET.	LOCATION.	SIZES.								REMARKS.
		¾ in.	1 in.	1½ in.	2 in.	4 in.	6 in.	8 in.	12 in.	
		Ft. In.	Ft. In.	Ft. In.	Ft. In.	Ft. In.	Ft. In.	Ft. In.	Ft. In.	
Commercial	27 ft. West of the east line of East Ave. southeasterly								584	
East Avenue	61 ft. South of the south line of Fifteenth eastwardly						9 8			Hydrant Branch
Perry	149 ft. North of the north line of Twenty-third eastwardly						9			Hydrant Branch.
Perry	21 ft. South of the north line of Twenty-third northwardly								149	
Wayne	215.3 ft. South of the south line of Fourteenth westwardly						26			Hydrant Branch.
Reed	179 ft. South of the south line of Eleventh southwardly						176			
Reed	7 ft. South of the south line of Eighteenth southwardly						12			
Reed	5 ft. South of the south line of Sixth eastwardly			8						Hydrant Branch for Cart Sprinkler.
Reed	10 ft. South of the south line of Tenth eastwardly			6 6						Hydrant Branch for Cart Sprinkler.
Reed	16.6 ft. South of the south line of Eighteenth eastwardly			11 3						Hydrant Branch for Cart Sprinkler.
Ash	13 ft. South of the south line of Eleventh southwardly						344			
Ash	28 ft. South of the north line of Twelfth southwardly						220 6			
Ash	21 ft. South of the north line of Thirteenth southwardly						284			

Ash	5 ft. South of the south line of Fourth eastwardly						8 6			Hydrant Branch.
Wallace	10 ft. South of the south line of Sixth southwardly						160			
Wallace	17 ft. South of the north line of Eighth southwardly						184			
Wallace	33 ft. South of the north line of Twelfth southwardly						314			
Wallace	21 ft. South of the north line of Thirteenth southwardly						179			
Wallace	21 ft. South of the north line of Fourteenth southwardly						181			
Wallace	17 ft. South of the north line of Eighth southwardly									184 ft. of 4" pipe taken up.
French Road	21 ft. South of the north line of Twenty-eighth southwardly						1686			
French Road	1647 ft. South of the south line of Twenty-eighth southw'ly						56			
French Road	51.6 ft. North of the City line eastwardly						8			Hydrant Branch.
French Road	5 ft. South of the south line of Sechrist lane eastwardly						8			Hydrant Branch.
Pine Avenue	21 ft. North of the City line southwardly	137								For Watering Trough.
French	404 ft. North of the north line of Second eastwardly						14 8			Hydrant Branch.
French	9 ft. South of the north line of Twenty-second southwardly						46			In place or 46 ft. 4" pipe taken up.
French	5 ft. South of the south line of Twenty-second eastwardly						6			Hydrant Branch.
French	39 ft. South of the south line of Nineteenth eastwardly						8			Hydrant Branch.
German	4 ft. North of the south line of Twentieth northwardly						8			
German	5 ft. South of the south line of Twentieth eastwardly						8			Hydrant Branch.

MAIN PIPE LAID IN 1904—Continued.

STREET.	LOCATION.	SIZES.								REMARKS.
		¾ in.	1 in.	1½ In.	2 in.	4 in.	6 in.	8 in.	12 in.	
		Ft. In.	Ft. In.	Ft. In.	Ft. In.	Ft. In.	Ft. In.	Ft. In.	Ft. In.	
German	4 ft. North of the south line of Twentieth eastwardly									8.9 ft. 6" H. B. taken up.
State	381 ft. South of the south line of Twenty-first southwardly						240			In place of 240 ft. of 4" pipe taken up.
Peach	21 ft. South of the north line of Twenty-second northw'ly			2 9						Hydrant Branch for Cart Sprinkler.
Myrtle	5.2 ft. North of the north line of Seventeenth eastwardly						3 5			Hydrant Branch.
Chestnut	85 ft. South of the south line of Twelfth westwardly						23			
Chestnut	15 ft. South of the north line of Seventeenth east, south & w.					20				In place of 10 ft. of 4" pipe taken out.
Chestnut	82.6 ft. South of the south line of Twelfth westwardly									19 ft. of 4" pipe taken up.
Hickory	11 ft. South of the south line of Sixteenth eastwardly						7 6			In place of 4" Hydrant Branch taken up.
Cochran	5 ft. South of the south line of Twenty-ninth eastwardly						9			Hydrant Branch.
Walnut	21 ft. South of the north line of Second northwardly					239				
Walnut	246.6 ft. North of the north line of Huron eastwardly						9			Hydrant Branch.
Plum	5 ft. North of the north line of Seventh eastwardly						8			Hydrant Branch.
Plum	99 ft. North of the north line of Seventh eastwardly									10 ft. 4" H. B. taken up.

Plum	5 ft. North of the north line of Twenty-fourth eastwardly						9 8			9.8 ft. 4″ H. B. taken up.
Poplar	40 ft. South of the north line of Sixth southwardly						203 6			
Cascade	143 ft. North of the north line of Eighth northwardly						226			
Cascade	119 ft. North of the north line of Eighth northwardly						24			
Cascade	118 ft. North of the north line of Eighth eastwardly									8.10 ft. 6″ H. B. taken up.
Raspberry	28 ft. South of the north line of Tenth southwardly						76 6			
Raspberry	21 ft. South of the north line of Eleventh northwardly						186			
Raspberry	165 ft. North of the north line of Eleventh northwardly						165			
Raspberry	5 ft. North of the north line of Twenty-eighth southwardly						160			
Raspberry	95 ft. South of the south line of Twenty-eighth eastwardly						8 6			Hydrant Branch.
Waterf'd Trnpk	21 ft. West of the east line of Maple eastwardly		336							For Watering Trough.

SUMMARY OF PIPE LAID AND REMOVED IN 1904.

PIPE LAID.	Feet.	In.		Feet.	In.
¾-inch	2093	10			
1 -inch	336				
1½-inch	101	8			
2 -inch	66				
4 -inch	457				
6 -inch	11044	1			
12 -inch	1447	6	Total,	15546	1

PIPE REMOVED.								
1-inch	497	6						
2-inch	239							
4-inch	909	10		Feet.	In.		Feet.	In
6-inch	360	9	Total,	2007	1	Net Increase,	13539	
						Or 2 miles	2979	
			Reported December 31, 1903			115 miles	1563	8
			Total to December 31, 1904			117 miles	4542	8

CONNECTIONS MADE IN 1904.

WARD.	¾-Inch.			1-Inch.			1½-Inch.			2-Inch.			3-Inch.			4-Inch.			6-Inch.			TOTAL.		
	No.	Feet.	In.	No.	Ft.	In	No.	Ft.	In.	No.	Ft.	In.	No.	Ft.	In.	No.	Ft.	In.	No.	Ft.	In.	No.	Ft.	In.
First	20	379	5	1	10	6																21	389	11
Second	48	890	8				1	38	10	2	25	5				1	26	8	3	100	7	55	1082	2
Third	159	4211	8	2	12	6	1	6	9	4	113					1	3	9	1	55	5	168	4403	1
Fourth	53	994					1	5	7													54	999	7
Fifth	101	1569		3	25	6	1	24	6													105	1619	
Sixth	41	773	6				1	25	6										2	36	6	44	835	6
Seventh	14	193	10				1	8	6	2	52								3	68	8	20	323	
Total	436	9012	1	6	48	6	6	109	8	8	190	5				2	30	5	9	261	2	467	9652	3

CONNECTIONS TAKEN OUT IN 1904.

First																								
Second	7	193														1	25					8	218	
Third	4	50	4																			4	50	4
Fourth	1																					1		
Fifth	1	9																				1	9	
Sixth				1	24	9																1	24	9
Seventh																								
Total	13	252	4	1	24	9										1	25					15	302	1
Net Increase	423	8759	9	5	23	9	6	109	8	8	190	5				1	5	5	9	261	2	452	9350	2

CONNECTIONS RENEWED AND ALTERED IN 1904.

		Gain in Service Pipe. Ft.	In.	Loss in Service Pipe Ft.	In.
First	2				
Second	33	28	1	37	2
Third	27	148	10	7	6
Fourth	7			349	10
Fifth	2	6	9		
Sixth	7			16	8
Total	78	183	8	411	2

	Ft.	In.	Ft.	In.
Increase in service pipe in 1904	9350	2		
Loss of service pipe altering 78 connections	227	6		
Net increase of service pipe in 1904			9122	8
Service pipe in use December 31, 1903	48 Miles.		2100	
Service pipe in use December 31, 1904	50 Miles.		662	8

STATEMENT OF CONNECTIONS MADE TO DECEMBER 31, 1904.

WARD.	IN PAVED STREETS NOT IN USE. Size in Inches.							IN USE. Size in Inches.										TOTAL. TOTAL.									
	¾	1	1½	2	4	6	Tot'l	¾	1	1¼	1½	2	2½	3	4	6	Tot'l	¾	1	1¼	1½	2	2½	3	4	6	Tot'l
First	197	1	...	2	...	...	200	1593	22	...	14	14	...	...	17	1	1661	1790	23	...	14	16	...	...	17	1	1861
Second	263	1	1	...	1	...	266	2306	21	...	29	21	...	...	43	20	2440	2569	22	...	30	21	...	...	44	20	2706
Third	457	2	...	1	...	...	460	2184	40	...	27	39	1	...	30	6	2327	2641	42	...	27	40	1	...	30	6	2787
Fourth	274	3	...	...	...	...	277	1811	32	3	28	25	...	...	15	3	1917	2085	35	3	28	25	...	...	15	3	2194
Fifth	131	...	...	...	...	...	131	1621	15	1	13	14	...	...	6	...	1670	1752	15	1	13	14	...	...	6	...	1801
Sixth	99	3	...	...	2	...	104	1595	19	...	11	12	...	1	8	3	1649	1694	22	...	11	12	...	1	10	3	1753
Seventh	...	...	...	...	...	...	...	142	6	1	10	9	...	1	5	8	182	142	6	1	10	9	...	1	5	8	182
Total	1421	10	1	3	3	...	1438	11252	155	5	132	134	...	2	124	41	11846	12673	165	5	133	137	1	2	127	41	13284

Total number reported December 31, 1903			12,832
Made on account street paving in 1904	130		
Made on application in 1904	337	467	
Removed and abandoned in 1904		15	
Net increase in 1904			452
Total number December 31, 1904			13,284

STATEMENT OF METERS, DECEMBER 31, 1904.

KIND.	IN USE									NOT IN USE.									TOTAL.								
	SIZE IN INCHES.								Total.	SIZE IN INCHES.								Total.	SIZE IN INCHES.								Total.
	⅝	¾	1	1½	2	3	4	6		⅝	¾	1	1½	2	3	4	6		⅝	¾	1	1½	2	3	4	6	
Crown	...	4	2	2	8	1	2	...	19	1	1	...	...	...	...	...	...	2	1	5	2	2	8	1	2	...	21
Columbia	4	14	...	...	...	...	...	...	18	...	2	...	...	...	...	...	...	2	4	16	...	...	...	...	...	...	20
Empire	...	...	2	...	3	...	...	...	5	...	...	...	...	...	...	...	...	...	...	...	2	...	3	...	...	...	5
Gem	...	...	...	...	1	...	...	...	1	...	...	...	...	2	...	...	...	2	...	...	...	...	3	...	...	...	3
Keystone	...	1	3	12	8	...	...	...	24	...	...	...	...	...	...	...	...	...	...	1	3	12	8	...	...	...	24
Lambert	...	1	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	1
Nash	...	...	...	...	1	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	1
Pitts. Disc	...	1	1	...	...	...	...	...	2	...	...	...	...	...	...	...	...	...	...	1	1	...	...	...	...	...	2
Thomson	2	6	4	4	5	1	4	...	26	1	...	...	...	...	...	...	...	1	3	6	4	4	5	1	4	...	27
Torrent	...	...	...	...	...	...	...	3	3	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	3	3
Union	4	49	12	13	23	11	16	1	129	...	28	8	3	5	2	1	...	47	4	77	20	16	28	13	17	1	176
Worthington	...	2	6	5	...	1	...	...	14	...	1	4	1	...	...	...	...	6	...	3	10	6	...	1	...	...	20
Total	10	78	30	36	49	14	22	4	243	2	32	12	4	7	2	1	...	60	12	110	42	40	56	16	23	4	303

CROSSES PLACED IN 1904.

SIZE.	NUMBER.	
4 x 4-inch	1	
6 x 4-inch	1	
6 x 6-inch	10	
12 x 6-inch	2	14

REMOVED IN 1904.

SIZE.	NUMBER.	
4 x 4-inch	5	
6 x 4-inch	1	6
Net Increase		8

TEES PLACED IN 1904.

SIZE.	NUMBER.	
6 x 4-inch	1	
6 x 6-inch	35	
12 x 6-inch	7	
12 x 12-inch	2	45

REMOVED IN 1904.

SIZE.	NUMBER.	
4 x 4-inch	4	
6 x 4-inch	9	
6 x 6-inch	1	14
Net Increase		31

1904. **ANALYSES OF WATER BY DR. WM. P. MASON, TROY, N. Y.** 1904.

LOCATION.	DATE. 1904.	RESULTS IN PARTS PER MILLION.															
		Taste.	Odor.	Color.	Sediment Quickly Falling	Turbidity.	Free Ammonia.	Albuminoid Ammonia.	Chlorine.	Nitrogen in Nitrates.	Nitrogen in Nitrites.	Oxygen Required to Oxidize Organic Matter at 212°F	Alkalinity as Parts of C. A. C. O. 3.	Total Solids	Total Solids Less Organic and Volatile.	Bacteria (per Cubic Centimeter.)	Bacillus Coli Communis.
A																	
Lake Erie.....	Mar.17	none	none	25.	none	20.	.045	.127	5.	trace	.001	1.65	80.	123.		4050.	present
Present Intake ...		none	none	15.	none	4.	.24	.14	7.	trace	.003	1.95	85.	143.		innumerable	present
Worthington Pump Well.....		none	none	15.	none	4.	.19	.125	6.2	trace	.003	3.35	85.	135.			present
Reservoir		none	none	15.	none	1.5	.1	.17	6.	.025	.003	2.35	90.	137.		90.	none
A																	
Lake Erie.....	June15	none	none	15.	none	100.	.015	.11	4.	.15	.001	3.45	40.	158.			few present
Present Intake ...		none	none	20.	none	40.	.02	.135	4.	.05	.001	3.15	40.	153.			few present
Worthington Pump Well.....		none	none	20.	slight	70.	.04	.25	3.5	.075	.001	2.15	40.	149.			none
Reservoir		none	none	20.	none	80.	.035	.17	3.5	.1	trace	2.9	40.	145.			few present
A																	
Lake Erie.....	Nov.23	none	none	20.	slight	5.	.071	.15	5.	.01	none	1.7	95.	158.			none
Present Intake....		none	none	30.	slight	4.	.153	.252	7.5	.05	none	3.9	100.	164.			present
Worthington Pump Well.....		none	none	30.	slight	10.	.158	.152	7.5	.05	trace	3.4	100.	160.			present
Reservoir		none	none	20.	slight	5.	.132	.208	7.5	.075	trace	3.8	95.	175.			present

ANALYSES OF WATER BY

DR. WM. P. MASON, TROY, N. Y. — THE ERIE LABORATORY, ERIE, PA.

LOCATION.	DATE. 1904.	RESULTS IN PARTS PER MILLION.															
		Taste.	Odor.	Color.	Sediment Quickly Falling.	Turbidity.	Free Ammonia.	Albuminoid Ammonia.	Chlorine.	Nitrogen in Nitrates.	Nitrogen in Nitrites.	Oxygen Required to Oxidize Organic Matter at 212°F.	Alkalinity as Parts of C. A. C. O_3.	Total Solids.	Total Solids Less Organic and Volatile.	Bacteria (per cubic Centimeter.)	Bacillus Coli Communis.
B																	
Lake Erie	Nov.25	none	none	5.	none	2.	.014	.102	10.6	.04	trace	2.00	105.	197.	135.	22.	none
Present Intake ...		none	none	5.	none	2.	.104	.300	10.6	.05	.0048	4.45	105.	168.	136.	818.	present
Worthington Pump Well.....		none	none	5.	none	3.	.056	.152	10.6	.05	.0048	4.35	100.	190.	124.	1057.	present
Reservoir		none	none	5.	none	3.	.088	.150	10.6	.04	.002	3.65	110.	204.	141.	718.	present
A	1905.																
Lake Erie.....	Feb.21	none	none	3.	none	10.	.099	.103	5.	.062	trace	1.6	102.	140.		84.	none
Present Intake ...		none	none	10.	none	3.	.169	.171	5.	.0875	.003	3.1	115.	150.		229.	abundant
Worthington Pump Well.....		none	none	10.	none	3.	.189	.201	5.	.0875	.003	3.1	115.	140.		227.	abundant
Reservoir		none	none	5.	none	2.	.16	.155	5.	.0875	.003	3.15	115.	180.		95.	present

A—Dr. W. P Mason. B—The Erie Laboratory.

DRINKING FOUNTAINS FOR MAN, HORSE AND DOG.

Manufactured by J. L. Mott Iron Works, New York and Chicago.

STYLE.	DATE OF INSTALLATION.	WHERE LOCATED.
No. 1	October 26, 1894	South Park Row between State and French streets.
No. 2	June 13, 1894	Turnpike, Southwest corner State street.
No. 2	June 16, 1894	Parade and Southeast corner Tenth street.
No. 2	July 3, 1895	State and Southeast corner Eighteenth street.
No. 2	July 26, 1895	Parade, East Side, between Twelfth and Thirteenth streets.
No. 2	October 2, 1895	State, East Side, between Third and Fourth streets.
No. 2	June 16, 1896	Chestnut and Southeast corner Eighteenth street.
No. 2	July 31, 1897	Peach and Southeast corner Twenty-sixth street.
No. 2	August 5, 1897	Eighth street, Northwest corner Cranberry street.
No. 2	August 14, 1900	Peach and Lakeside Park.
No. 3	August 22, 1900	Water Works Park.
No. 2	July 24, 1901	Buffalo Road, end of main.
No. 4	December 12, 1902	Center of Eliot Avenue, west line of Waterford Avenue.
No. 4	September 13, 1904	West Side, Pine Avenue, South of City line.
No. 4	September 22, 1904	Cor. Waterford Turnpike and Cherry street.
No. 4	September 26, 1904	North Side 26th, West of Cranberry.

STYLE NO. 1.—Square base; ornamental top, with square sides; three places for man, one for horses.

STYLE NO. 2.—Square base; oval sides, with plain top; one place for man, one for horses, two for dogs.

STYLE NO. 3.—Flat base; oval sides, with plain top; one place for man.

STYLE NO. 4.—Cast iron water pipe, 20-in. diameter, 7 ft. long and stands 4½ ft. above ground, which runs all winter without freezing. Designed by Clark Olds.

HYDRANTS FOR CART SPRINKLERS.

Date of Installation			Style.	Size.	Side of Street.	Where Located.
Month.	Day	Year.				
April	26	1876	Jarecki & Hays	1½-inch	North	Ninth Street, between State and French.
June	6	1882	" "	1½ "	East	State street, between Tenth and Eleventh.
July	31	1882	" "	1½ "	North	Eighteenth, North West cor. Peach.
July	31	1882	" "	1½ "	East	State street, South West cor. East Park.
April	20	1885	" "	1½ "	South	Fifteenth Street, between Peach and Sassafras.
June	7	1886	" "	1½ "	South	Twelfth Street, South West cor. Peach.
June	3	1887	" "	1½ "	East	Myrtle Street, South East corner Eighteenth.
June	3	1887	" "	1½ "	East	Walnut Street, North East corner Eighteenth.
August	23	1889	Hays	1½ "	East	Parade Street, South East corner Eighth.
August	23	1889	"	1½ "	East	Parade Street, North East corner Twelfth.
June	8	1891	"	1½ "	North	Fourteenth Street, South East corner State.
July	8	1893	"	1½ "	North	Eighth Street, between Raspberry and Cranberry.
January	10	1895	Jarecki	1½ "	East	Parade Street, between Sixteenth and Seventeenth.
April	14	1897	"	1½ "	East	Walnut Street, North East corner Tenth.
July	29	1901	"	1½ "	North	Seventh Street, North West corner Cherry.
May	13	1904	Mertens	1½ "	East	Reed Street, South East corner Sixth.
June	10	1904	"	1½ "	East	Reed Street, South East Corner Tenth.
June	17	1904	"	1½ "	East	Reed Street, South East corner Eighteenth.
June	15	1904	"	1½ "	North	Twelfth Street, North West corner Chestnut.
June	16	1904	"	1½ "	North	Sixth Street, North West corner Holland.
June	18	1904	"	1½ "	North	Twelfth Street, NorthWest corner Holland.
June	21	1904	"	1½ "	North	Twenty-second Street, North East corner Holland.
June	21	1904	"	1½ "	North	Twenty-sixth Street, North West corner Peach.
July	28	1904	"	1½ "	East	Peach Street, between Twenty-first and Twenty-second.
August	1	1904	"	1½ "	North	Third Street between Myrtle and Chestnut.
August	2	1904	"	1½ "	North	Third Street, between Sassafras and Myrtle.
August	2	1904	"	1½ "	North	West Lake Road 1979 ft. west of the East line of Cranberry.
September	13	1904	"	1½ "	North	Third Street, 16.4 ft. West of the West line of Holland.

CHARITABLE INSTITUTIONS.

Churches, Parsonages, Parish-Houses and Schools Assessed Under the One-third Rate in 1904.

FIRST WARD.

Name.	Full Rate.	One-Third Rate.
Hamot Hospital (Nurses' Home)	$ 34.95	$ 11.65
Hamot Hospital	210.03	70.01
Swedish Baptist Church	3.00	1.00
St. James A. M. E. Church	13.65	4.55
Wm. Brewster Industrial School for Girls	15.90	5.30
St. Patrick's Church Rectory	29.55	9.84+
St. Patrick's Church	1.95	.65
St. Patrick's Auditorium	143.40	47.80
St. Joseph's Orphan Asylum	126.25	42.09−
Erie Bethel	7.00	2.34−
	$ 585.68	$195.23

SECOND WARD.

Davis Short Hand & Business School	$ 23.50	$ 7.83+
Erie Business University	8.50	2.84−
Woman's Christian Association	27.50	9.17−
St. Stanislaus School	146.10	48.70
St. Stanislaus Church	30.54	10.18
St. Ann's Church Rectory	25.05	8.35
United Presbyterian Church	55.32	18.44
United Presbyterian Church Parsonage	14.85	4.96−
St. Mary's Church	16.50	5.50
St. Mary's Church and Rectory	30.70	10.24−
St. Benedict's Academy	64.65	21.57−
St. Benedict's Convent	58.45	19.48+
St. Mark's Episcopal Church	10.08	3.36
Swedish Lutheran Church Parsonage	13.62	4.54
Swedish Lutheran Church	15.12	5.04
St. Mary's Parochial School (New)	105.16	35.06−
St. Mary's Parochial School (Old)	36.18	12.06
Tenth Street M. E. Church Parsonage	16.55	5.51+
Lutheran Memorial Church (Mission)	9.00	3.00
St. Ann's Church	41.85	13.95
St. Stanislaus Society Hall	9.00	3.00
St. Stanislaus Convent	16.23	5.41
St. Stanislaus Rectory	16.17	5.39
Birth Sholem Congregation	6.15	2.05
	$796.77	$265.63

CHARITABLE INSTITUTIONS—Continued.

THIRD WARD.

Name.	Full Rate.	One-Third Rate.
icle	$ 8.00	$ 2.68–
l's German Lutheran Church Parsonage	16.50	5.52–
ul's German Lutheran Church	35.25	11.77–
ran Memorial Church	24.05	8.02–
Foreign Mission (Boys' Club)	9.00	3.00
Salem Church Parsonage	14.50	4.83+
Paul's Italian Church and Parsonage	14.00	4.66+
Maria Academy	207.03	69.01
Luke's Evan. Lutheran Church	13.71	4.57
ne Academy	21.00	7.00
First Unitarian Church	14.00	4.67–
Sanford Memorial Mission	24.72	8.24
Y. M. C. A.	99.18	33.06
Central Presbyterian Church	70.68	23.56
Calvary Baptist Church	17.25	5.75
St. Peter's Parochial School	48.75	16.24+
Salem Church	38.37	12.79
German Evan. Lutheran Church Parsonage	13.02	4.34
German Evan. Lutheran Church	10.02	3.34
Erie Society of the Free Methodist Church	9.24	3.08
St. Michael's Convent	13.00	4.34–
St. Michael's Parochial School	27.84	9.28
St. Michael's Church Parsonage	25.45	8.48+
First Baptist Church Mission	5.00	1.68–
	$ 779.56	$ 259.91

FOURTH WARD.

First Presbyterian Church	$ 37.20	$ 12.40
First Baptist Church	19.95	6.66–
Park Presbyterian Church Parsonage	19.20	6.40
St. Paul's Episcopal Church & Parish House	123.51	41.17
St. John's Lutheran Church Mission	5.00	1.67–
St. Andrew's Church Rectory	11.00	3.68–
Hebrew Synagogue	17.95	6.00–
First M. E. Church	22.50	7.50
First Christian Church	8.00	2.68–
First Christian Church Parsonage	11.00	3.68–
St. Paul's Episcopal Church Rectory	14.85	4.96–
Park Presbyterian Church	25.00	8.35–
	$ 315.16	$ 105.15

FIFTH WARD.

St. John's Parochial School	$ 61.30	$ 20.43+
St. Mary's Home	37.47	12.49
Second Baptist Church Parsonage	7.05	2.35
Wayne Street M. E. Church Parsonage	16.77	5.59
Wayne Street M. E. Church	5.06	1.70–
St. Stephen's Lutheran Church Parsonage	19.45	6.49–
Holy Trinity Church	19.17	6.39
Evang. Luth. Church of the Redeemer	7.65	2.55
St. John's Catholic Church	23.50	7.84–
Rev. M. J. Decker	17.95	5.99–
Second Baptist Church	10.12	3.38–
	$ 225.49	$ 75.20

CHARITABLE INSTITUTIONS—Continued.

SIXTH WARD.

Name.	Full Rate.	One-Third Rate.
St. John's Lutheran Church	$ 51.05	$ 17.02−
First German Baptist Church and Parsonage	35.40	11.84−
St. Joseph's R. C. Church	5.00	1.68−
St. Joseph's Parochial School	104.50	34.84−
Home for the Friendless	85.98	28.66
Old Ladies' Home	90.00	30.00
St. Vincent's Hospital Association	218.28	72.76
Glenwood Chapel	8.64	2.88
Zion Lutheran Church	12.03	4.01
Sacred Heart Parochial School	16.02	5.34
Simpson M. E. Church Parsonage	11.00	3.68−
Simpson M. E. Church	31.25	10.42−
Brown Ave. U. P. Church	24.52	8.14
St. John's Lutheran Church Parsonage	16.56	5.51+
Florence Crittenton Home	17.00	5.65+
St. Joseph's Church Parsonage	10.80	3.60
Sacred Heart Church	23.20	7.73+
	$ 761.23	$ 253.76

SEVENTH WARD.

First Presbyterian Congregation Parsonage	$ 13.75	$ 4.59−
First Presbyterian Congregation Church	11.40	3.81−
	$ 25.15	$ 8.40
Total	$3489.04	$1163.28

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39TH ANNUAL REPORT

OF THE

COMMISSIONERS

OF

WATER WORKS,

IN THE

CITY OF ERIE, PENN'A.

TO THE

COUNCILS.

FOR THE

YEAR ENDING DECEMBER 31,

1905.

39th

ANNUAL REPORT

OF THE

COMMISSIONERS OF

WATER WORKS,

IN THE CITY OF ERIE,

ERIE, PENN'A,

TO THE

COUNCILS,

FOR THE

YEAR ENDING DECEMBER 31, 1905.

TYPOGRAPHICAL UNION LABEL ERIE PA.

TIMES PUBLISHING CO. PRINT
1906

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TILDEN FOUNDATIONS.
1906
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Commissioners of Water Works,

IN THE CITY OF ERIE,

ERIE, PENNA.

CLARK OLDS,
G. F. BREVILLIER,
WILLIS B. DURLIN.

OFFICERS.

CLARK OLDS,
ASSC. M. AM. SOC. C. E.
President.

GEORGE C. GENSHEIMER,
Secretary and Treasurer.

JOHN KOLB,
Assistant Secretary.

GEORGE H. FENKELL,
ASSC. M AM. SOC. C. E.
Civil Engineer for Intake Pipe Extension.

E. J. MORTON,
Ass't Civil Engineer for Intake Pipe Extension.

B. J. COATES,
Sup't of Water Works Pumping Station.

R. T. WALKER,
Superintendent of Street Work.

OFFICE, CITY HALL.

OFFICE HOURS. From 8:00 a. m. to 5:00 p. m.; on Mondays to 9:00 p. m.

REGULAR MEETINGS OF THE COMMISSIONERS. Every Saturday at 3:00 p. m., and the first of each month at 11 a. m., except when it occurs on Sunday, then the meeting is held the following day. Special meetings when necessary.

ANNUAL REPORT.

To the Councils of the City of Erie, Pa.:

GENTLEMEN:

We herewith submit the thirty-ninth annual report of this department for the year ending December 31, 1905.

Receipts.

Balance in City Treasury Dec. 31, 1904			$127,400.49
From Water Rents:			
Assessments	$124,311.74		
Meters	37,967.47		
Building permits	1,258.83		
Special permits	74.58		
		$163,612.62	
Plumbing and material sold		1,403.53	
			$165,016.15
Total			$292,416.64

Disbursements.

Construction	$134,605.82		
Maintenance	20,412.92		
Operating	32,060.21		
Accounting	9,143.55		
Legal	152.97		
		$196,375.47	
Sinking Fund Commissioners of the City of Erie		20,000.00	
Balance in City Treasury Dec. 31, 1905		76,041.17	
Total			$292,416.64

The increase in the receipts of the department for the year 1905 from water amounted to $7,304.11.

Total increase in the receipts of the department over the previous year, $4,833.84.

The amount of water pumped was 3,839,566,978 gallons, an increase of 148,784,366 gallons.

The daily average pumpage was 10,519,361 gallons. The daily average per capita pumpage based upon a population of 65,000 was 161.8 gallons.

The amount of water furnished by meter measurement to manufactories and other large consumers was 906,381,160 gallons, an increase of 107,150,722 gallons over the previous year.

Deducting the amount of water furnished by meter measurement from the total amount of water pumped gives the approximate amount of water furnished for domestic use, viz. 2,933,185,818 gallons, a daily average of 8,036,125 gallons, and a daily average per capita for domestic use of 123.6 gallons.

Daily average lift for the high service system was 298.62 feet and for the low service system 236.29 feet.

We laid 9,852 9-12 feet of pipe, making the total length of mains laid to date nearly 119¾ miles.

Twenty-five additional fire hydrants were placed, making the total number in use 750. A large number of fire hydrants were taken out and replaced with new ones of larger capacity and modern construction.

We have placed near the city limits, upon the principal roads leading into the city, drinking fountains or watering troughs where water is furnished gratuitously to the public during the whole year. The construction is such that they do not freeze in the coldest weather.

In July, 1904, we awarded a contract to The T. A. Gillespie Company of Pittsburgh, Pa., to extend the intake pipe about ten thousand feet to a point in Lake Erie one mile north of *the peninsula* for the sum of $187,303.58.

The bay and peninsula sections of the work were completed during the year 1904 and 1905.

The lake section, consisting of about five thousand feet, will be completed during the coming year.

We have paid $118,423.67 to apply upon the contract and now have sufficient funds on hand to pay the balance as soon as the contract is completed.

This great work will be accomplished without incurring any indebtedness whatever.

We are constructing at the pumping station a perforated radial brick smoke stack of 2,000 H. P. capacity, 175 feet high, with an internal diameter of 96 inches, under contract with H. R. Heinicke, Inc., of New York, for the sum of $5,925.00.

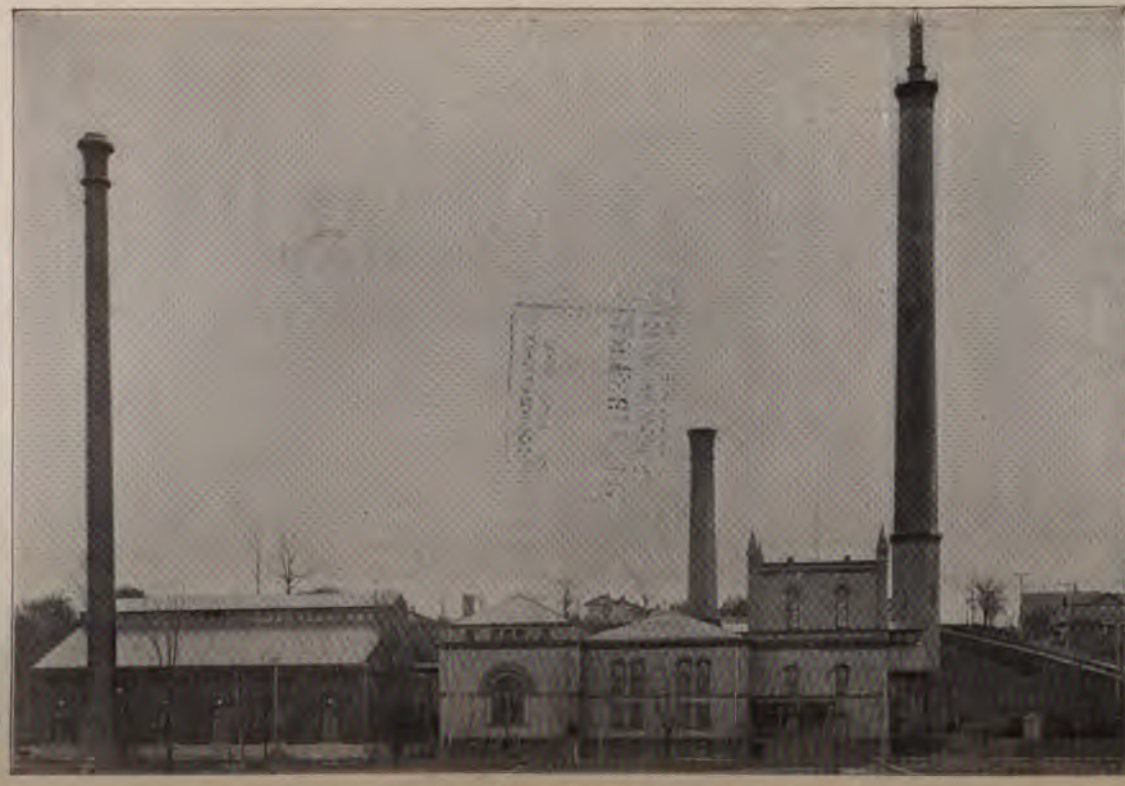
We have installed at the pumping station the Parr Calorimeter for determining heat units of the coal consumed.

Since July 27, 1905, samples of bituminous slack coal taken from 62 car loads show an average of 13,475.89 British Thermal Units per pound.

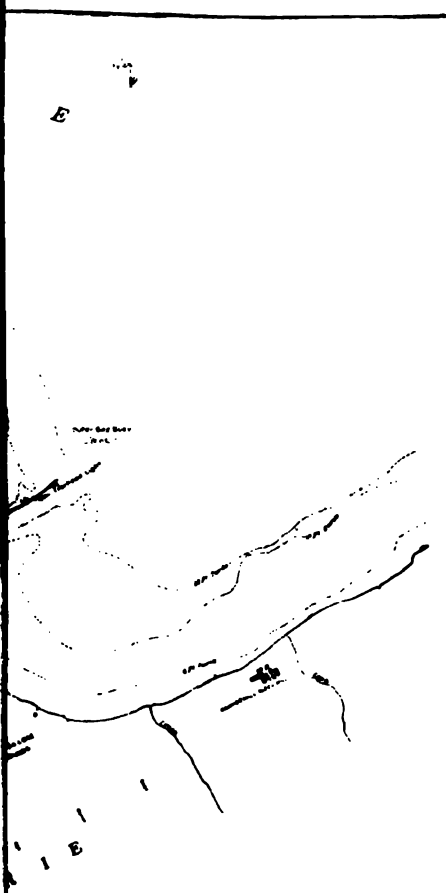
We again request you to audit the accounts of the department.

Respectfully submitted,

CLARK OLDS,
G. F. BREVILLIER,
WILLIS B. DURLIN,
Commissioners.



Pumping Station as Seen from the Bay.



HARBOR AND PRESQUE ISLE,
PENNSYLVANIA.

OMMISSIONERS OF WATER WORKS
IN THE CITY OF ERIE.
ERIE PENNA

SCALE

Drawn by Geo. H. Fenkell, May 1894, from Chart of Erie Harbor and Presque Isle, issued by the Corps of Engineers, U.S.A.

THE
PUB

Commissioners of Water Works, in the City of Erie, from Organization to December 31, 1905.

The Commissioners of Water Works, in the City of Erie, are appointed by the Court of Common Pleas of Erie County, Penn'a, for a term of three years, one member being named annually, in May.

1867	*W. L. Scott,	*Henry Rawle,	*Wm. W. Reed.
1868	*John C. Selden,	*Henry Rawle,	*Wm. W. Reed.
1869	*John C. Selden,	*Henry Rawle,	*Wm. W. Reed.
1870	*John C. Selden,	*Henry Rawle,	*Wm. W. Reed.
1871	*†John C. Selden,	*Henry Rawle,	*Wm. W. Reed.
1872	*Matthew R. Barr,	John Gensheimer,	*Wm. W. Reed.
1873	*Matthew R. Barr,	John Gensheimer,	*Wm. W. Reed.
1874	*Matthew R. Barr,	John Gensheimer,	*Wm. W. Reed.
1875	*Matthew R. Barr,	John Gensheimer,	*Wm. W. Reed.
1876	*Matthew R. Barr,	John Gensheimer,	*Wm. W. Reed.
1877	Michael Liebel,	John Gensheimer,	*Wm. W. Reed.
1878	Michael Liebel,	*J. M. Bryant,	*Wm. W. Reed.
1879	Michael Liebel,	*J. M. Bryant,	*G. W. F. Sherwin.
1880	Michael Liebel,	*J. M. Bryant,	*G. W. F. Sherwin.
1881	Michael Liebel,	Benjamin Whitman,	*G. W. F. Sherwin.
1882	Michael Liebel,	Benjamin Whitman,	*G. W. F. Sherwin.
1883	Michael Liebel,	Benjamin Whitman,	*G. W. F. Sherwin.
1884	Michael Liebel,	Benjamin Whitman,	*G. W. F. Sherwin.
1885	Michael Liebel,	Benjamin Whitman,	*Geo. W. Starr.
1886	C. Kessler,	Benjamin Whitman,	*Geo. W. Starr.
1887	C. Kessler,	C. J. Brown,	*Geo. W. Starr.
1888	C. Kessler,	C. J. Brown,	*Geo. W. Starr.
1889	C. Kessler,	C. J. Brown,	*Geo. W. Starr.
1890	C. Kessler,	C. J. Brown,	*Geo. W. Starr.
1891	C. Kessler,	C. J. Brown,	Wm. Hardwick.
1892	T. W. Shacklett,	C. J. Brown,	Wm. Hardwick.
1893	T. W. Shacklett,	C. J. Brown,	Wm. Hardwick.
1894	T. W. Shacklett,	C. J. Brown,	Wm. Hardwick.
1895	T. W. Shacklett,	‡C. J. Brown,	Wm. Hardwick.
1896	T. W. Shacklett,	Clark Olds,	Wm. Hardwick.
1897	T. W. Shacklett,	Clark Olds,	Wm. Hardwick.
1898	T. W. Shacklett,	Clark Olds,	Wm. Hardwick.
1899	T. W. Shacklett,	Clark Olds,	Wm. Hardwick.
1900	T. W. Shacklett,	Clark Olds,	G. F. Brevillier.
1901	Willis B. Durlin,	Clark Olds,	G. F. Brevillier.
1902	Willis B. Durlin,	Clark Olds,	G. F. Brevillier.
1903	Willis B. Durlin,	Clark Olds,	G. F. Brevillier.
1904	Willis B. Durlin,	Clark Olds,	G. F. Brevillier.
1905	Willis B. Durlin,	Clark Olds,	G. F. Brevillier.

*Dead.

†Mr. Selden resigned before the expiration of his second term; Mr. Barr was substituted by the other Commissioners, and afterward appointed by the Court.

‡C. J. Brown resigned December 28, 1895, having been elected Treasurer of Erie County, Penn'a. Clark Olds was chosen by the other Commissioners for the unexpired term, on recommendation of the Court, *January* 2, 1896.

Officers of Water Works, from Organization to December 31, 1905.

	President.	Secretary and Treasurer.	Assistant Secretary.
1867	*Wm. W. Reed,	*Wm. Brewster,	.....
1868	*Wm. W. Reed,	*Wm. Brewster,	.....
1869	*Wm. W. Reed,	*J. C. Perkins,	.....
1870	*Wm. W. Reed.	*J. C. Perkins,	.....
1871	*Wm. W. Reed,	*J. C. Perkins,	.....
1872	*Wm. W. Reed,	*J. C. Perkins,	.....
1873	*Wm. W. Reed,	*J. C. Perkins,	.....
1874	*Wm. W. Reed,	*J. C. Perkins,	.....
1875	*Wm. W. Reed,	*J. C. Perkins,	.....
1876	*Wm. W. Reed,	*J. C. Perkins,	.....
1877	*Wm. W. Reed,	*J. C. Perkins,	.....
1878	*Wm. W. Reed,	*J. C. Perkins,	.....
1879	Michael Liebel,	*B. F. Sloan,	.....
1880	Michael Liebel,	*B. F. Sloan,	.....
1881	*G. W. F. Sherwin,	*B. F. Sloan,	.....
1882	*G. W. F. Sherwin,	*B. F. Sloan,	.....
1883	*G. W. F. Sherwin,	*B. F. Sloan,	.....
1884	Benjamin Whitman,	*B. F. Sloan,	Geo. C. Gensheimer.
1885	Benjamin Whitman,	*B. F. Sloan,	Geo. C. Gensheimer.
1886	Benjamin Whitman,	*B. F. Sloan,	Geo. C. Gensheimer.
1887	*Geo. W. Starr,	*B. F. Sloan,	Geo. C. Gensheimer.
1888	*Geo. W. Starr,	*B. F. Sloan,	Geo. C. Gensheimer.
1889	*Geo. W. Starr,	*B. F. Sloan,	Geo. C. Gensheimer.
1890	*Geo. W. Starr,	*B. F. Sloan,	Geo. C. Gensheimer.
1891	C. J. Brown,	*Wm. Himrod,	Geo. C. Gensheimer.
1892	C. J. Brown,	*Wm. Himrod,	Geo. C. Gensheimer.
1893	C. J. Brown,	*Wm. Himrod,	Geo. C. Gensheimer.
1894	Wm. Hardwick,	*Wm. Himrod,	Geo. C. Gensheimer.
1895	Wm. Hardwick,	*Wm. Himrod,	Geo. C. Gensheimer.
1896	T. W. Shacklett,	*Wm. Himrod,	Geo. C Gensheimer.
1897	T. W. Shacklett,	*Wm. Himrod,	Geo. C. Gensheimer.
1898	T. W. Shacklett,	*Wm. Himrod,	Geo. C. Gensheimer.
1899	Clark Olds,	*Wm. Himrod,	Geo. C Gensheimer.
1900	Clark Olds,	*Wm. Himrod,	Geo. C. Gensheimer.
1901	Clark Olds,	*Wm. Himrod,	Geo. C. Gensheimer.
1902	Clark Olds,	Geo. C. Gensheimer.	John Kolb.
1893	Clark Olds,	Geo. C. Gensheimer.	John Kolb.
1904	Clark Olds,	Geo. C. Gensheimer.	John Kolb.
1905	Clark Olds,	Geo. C. Gensheimer.	John Kolb.

*Dead.

NOTE.—Mr. Brewster was elected June 14, 1867; resigned October 26, 1868, to take effect November 2, 1868; served 1 year, 4 months and 18 days. Mr. Perkins was elected October 26, 1868, to take effect November 2, 1868; resigned March 30, 1878; same accepted December 21, 1878, to take effect January 1, 1879; served 10 years, 1 month and 29 days. Mr. Sloan was elected December 21, 1878, to take effect January 1, 1879; continued in office to June 1, 1891; served 12 years and 5 months. Mr. Himrod was appointed Secretary May 23, 1891, to take effect June 1, 1891; served 11 years. Mr. Gensheimer was appointed Assistant Secretary January 26, 1884, and Secretary and Treasurer June 14, 1902. Mr. Kolb was appointed Assistant Secretary June 14, 1902.

Monthly Receipts from all Sources during the Year Ending December 31, 1905.

MONTH	Assessment	Meter	Special	Building	Plumbing	Total
Jan.	$ 27,936 43	$ 8,241 73	$ 8 75	$ 6 16	.....	$ 36,193 07
Feb.	2,544 74	.....	2 00	9 75	$ 57 61	2,614 10
Mar. ..	129 04	55 05	.....	35 21	229 39	448 69
April....	27,772 50	9,401 24	9 08	84 24	41 09	37,308 15
May.....	2,745 46	.....	9 00	68 65	28 41	2 851 52
June	540 12	91 96	17 00	131 19	2 00	782 27
July.....	27 993 55	9,868 35	5 25	237 28	201 12	38,305 55
Aug....	2,916 59	56 09	11 00	170 24	223 38	3,377 30
Sept.....	250 35	64 60	7 25	123 69	46 07	491 96
Oct.....	28,658 04	10,180 81	5 25	111 59	51 76	39,007 45
Nov. ..	2,765 19	7 64	.....	48 67	253 08	3,074 58
Dec	59 73	....	.....	232 16	269 62	561 51
	$ 124,311 74	$ 37,967 47	$ 74 58	$ 1,258 83	$ 1,403 53	$165,016 15

Receipts from each Ward during the Year Ending December 31, 1905.

WARD	Assessment	Meter	Special	Building	Plumbing	Total
First...	$ 16,163 76	$ 3,652 84	$ 15 00	$ 126 05	$ 41 43	$ 19,999 08
Second.	25,214 41	16,338 60	9 50	345 29	442 49	42,350 29
Third ...	29,339 19	8,105 89	1 50	398 00	464 11	38,308 69
Fourth..	22,158 67	1,915 44	13 00	107 58	375 21	24 569 90
Fifth....	14,929 68	2,498 47	1 33	105 75	1 91	17,537 14
Sixth....	14,654 06	1,363 95	11 00	160 26	26 64	16,215 91
Seventh.	1,851 97	4 092 28	23 25	15 90	51 74	6,035 14
	$ 124,311 74	$ 37,967 47	$ 74 58	$ 1,258 83	$ 1,403 53	$165 016 15

Cash Account of Secretary and Treasurer of Commissioners of Water Works in the City of Erie, for the Year Ending December 31, 1905.

MONTH.	Receipts.	Deposited with Treasurer City of Erie	Balance in Office at close of Business Each Month.
January	$ 36,193 07	$ 32,048 47	$ 4,144 60
February	2,614 10	6,676 88	81 82
March	448 69	394 83	135 68
April	37,308 15	31,076 39	6,367 44
May	2,851 52	9,082 00	136 96
June	782 27	651 66	267 57
July	38,305 55	33,284 09	5,289 03
August	3,377 30	8,405 07	261 26
September	491 96	484 79	268 43
October	39,007 45	34,304 84	4,971 04
November	3,074 58	7,682 27	363 35
December	561 51	924 86	.....
Total	$ 165,016 15	$ 165,016 15	

Statement of Account with Treasurer of the City of Erie, for the Year Ending December 31, 1905.

MONTH.	Received from Sec'y. and Treas Commissioners of Water Works in the City of Erie	Paid on Warrants of Commissioners of Water Works in the City of Erie.	Monthly Balances.
Balance from 1904	$ 127,400 49	.....	.....
January	32,048 47	$ 1,550 93	$ 157,898 03
February	6,676 88	5,807 03	158,767 88
March	394 83	5,525 19	153,637 52
April	31,076 39	12,977 09	171,736 82
May	9,082 00	28,715 26	152,103 56
June	651 66	45,327 11	107,428 11
July	33,284 09	21,960 12	118,752 08
August	8,405 07	11,574 01	115,583 14
September	484 79	12,883 86	103,184 07
October	34,304 84	30,151 73	107,337 18
November	7,682 27	11,851 43	103,168 02
December	924 86	28,051 71	76,041 17
Total	$ 292,416 64	$ 216,375 47	

Amount Collected Annually for Water Furnished, Showing Total Collections, also the Increase and Decrease Each Year Since the Commencement of the Water Works.

Year Ending Dec. 31st.	RECEIVED		ANNUAL	
	Annually.	Totals.	Increase	Decrease
1869	$ 4,264 47	$	$	$
1870	9,237 30	13,501 77	4,972 83	
1871	18,138 08	31 639 85	8,900 78	
1872	21,652 68	53,292 53	3,514 60	
1873	25,560 40	78,852 93	3,907 72	
1874	27,938 90	106,791 83	2,378 50	
1875	29 639 38	136 431 21	1,700 48	
1876	31,048 76	167,479 97	1,409 38	
1877	32,276 57	199,756 54	1,227 81	
1878	29,636 01	229,392 55		2,640 56
1879	33,343 20	262 735 75	3,707 19	
1880	37,385 00	300 120 75	4,041 80	
1881	40,385 87	340,506 62	3 000 87	
1882	43,818 73	384,325 35	3,432 86	
1883	48,269 89	432,595 24	4 451 16	
1884	51,852 78	484,448 02	3,582 89	
1885	53,550 35	537,998 37	1,697 57	
1886	58,725 00	596 723 37	5,174 65	
1887	67 121 92	663 845 29	8,396 92	
1888	73,197 03	737 042 32	6,075 11	
1889	81,110 68	818,153 00	7,913 65	
1890	87,279 96	905 432 96	6,169 28	
1891	93,891 55	999,324 51	6,611 59	
1892	105,527 03	1,104,851 54	11,635 48	
1893	111,247 43	1,216,098 97	5 720 40	
1894	111,821 94	1,327,920 91	574 51*	
1895	116,927 63	1,444,848 54	5,105 69	
1896	121 442 94	1,566,291 48	4,515 31	
1897	124,106 61	1,690,398 09	2,663 67	
1898	131,303 48	1,821,701 57	7,196 87	
1899	139 344 02	1,861,054 59	8,040 54	
1900	122,198 58	2,083,253 17		17,145 44‡
1901	133 879 87	2,217,133 04	11,681 29	
1902	143 285 11	2 360 418 15	9 405 24	
1903	149,066 54	2,509,484 69	5,781 43	
1904	156,308 51	2,665,793 20	7,241 97	
1905	163,612 62	2,829,405 82	7,304 11	

*Meter rates for water changed from a sliding scale of 6 cents to 10 cents per 1,000 gallons, according to amount consumed, to a flat rate of 6 cents per 1,000 gallons, causing a reduction in receipts of $5,000.00.

‡Meter rates changed from six cents per one thousand (1,000) gallons to twenty (20) cents for each one thousand (1,000) gallons for the first twenty-five thousand (25,000) gallons, and four (4) cents for each one thousand (1,000) gallons consumed thereafter during each current quarter. Same took effect July 1, 1899. Family rates changed from $5.00 per annum to $4.00, taking effect January 1, 1900. These changes in rates account for the heavy decrease in the receipts for 1900.

STATEMENT OF WARRANTS ISSUED IN 1905.

January.

TO PAY VOUCHER.

Date	No.	Of	For	Amount.
7	13925	John Kolb, Ass't Sec'y,	Sundries	$ 8 14
	13926	Pay Roll Street Work,	Disbursed by W. C. Siegel, Clerk	224 08
14	13927	Lyman Felheim,	Lumber	1 05
	13928	O. C. Thayer & Son,	Cement	1 80
	13929	New York & Penna. Tel. & Tel. Co.,	Rent of Telephone	4 04
	13930	J. C. Elviage, V. S.,	Veterinary Services	7 50
	13931	H. C. Dunn,	Brick	11 90
	13932	Erie Engine Works,	Castings	17 66
	13933	Thompson Meter Co.,	Meter	25 00
	13934	Edison Construction & Supply Co.,	Electric Light Repairs	25 17
	13935	National Paint & Varnish Co.,	Paint	36 75
	13936	Skinner Engine Co.,	Engine Repairs	39 18
	13937	Wm. P. Mason,	Analyses of Water	40 00
	13938	Mutual Telephone Co.,	Rent of Telephones	56 25
	13939	W. L. Scott Co.,	Coal	123 99
	13940	Jno. Kolb, Ass't Sec'y,	Sundries	20 80
	13941	D. P. Murphy,	Repairing Buildings	11 25
	13942	Pay Roll Street Work,	Disbursed by W. C. Siegel, Clerk	207 24
	13943	Mayer Bros.,	Repairing Paved Streets,	200 00
21	13944	James Firman,	Hay	18 09
	13945	Wm. Heidt,	Painting Boiler House	49 00
	13946	Pay Roll Street Work,	Disbursed by W. C. Siegel, Clerk	210 54
28	13947	D. P. Murphy,	Brick Work	4 50

January—Continued.

TO PAY VOUCHER.

Date	No.	Of For	Amount.
28	13948	Jno. Kolb, Ass't Secy. Sundries	$ 10 66
	13949	Pay Roll Street Work, Disbursed by W. C. Siegel, Clerk	196 34
		Total	$ 1,550 93

February.

TO PAY VOUCHER.

Date	No.	Of For	Amount.
1	13950	Pay Roll Office & Pumping Station, Disbursed by Jno. Kolb, Ass't Sec'y	$ 2,177 23
	13951	Frank & Hill, Agts., Rent of Office acc't Intake No. 2 Ext	12 00
4	13952	Jno. Kolb, Ass't Sec'y, Sundries	18 96
	13953	Pay Roll Street Work, Disbursed by W. C. Siegel, Clerk	242 25
9	13954	Detroit Auto Marine Co., Gasoline Engine	36 37
11	13955	Jno. J. O'Brien, Printing	1 00
	13956	H. Beckman & Sons, Paint	1 20
	13957	Holly Mfg. Co., Engine Repairs	1 20
	13958	R. J. Saltsman, Cement	1 80
	13959	Erie Company, Electric Light Repairs	2 00
	13960	Union Mfg. Co., Tools	2 00
	13961	P. J. Schotten, Connection Repairs	2 10
	13962	Union Iron Works, Boiler Repairs	2 50
	13963	Engineering News, Subscription	3 00
	13964	Municipal Journal, Subscription	3 00
	13965	Times Publishing Co., Subscription	3 00
	13966	The T. S. Buck Mfg. Co., Rubber Stamps	3 95
	13967	U. D. Sweigard, Drip Pans, etc.	4 60
	13968	Fire & Water Engineering, Subscription	5 50
	13969	Dispatch News Co., Subscription	5 50
	13970	John H. Buys, Coal	6 25

February—Continued.

TO PAY VOUCHER.

Date	No.	Of For	Amount.
11	13971	John Reinhold, Jr., Polish, etc.	$ 6 45
	13972	Wm. F. Nick & Son, Paint	7 20
	13973	C. Kessler, Brooms, Soap, etc.	7 36
	13974	Samuel Hanna, Horse Shoeing	7 50
	13975	Gustave Papesch, Iron	8 84
	13976	Palace Hardware House, Hardware	9 67
	13977	Hollands Mfg. Co., Tools	10 57
	13978	Lyman Felheim, Lumber	10 60
	13979	Johannessen Mfg. Co., Repairing Furniture	11 65
	13980	American Arithmometer Co., Repairing Arithmometer	14 85
	13981	Erie Mfg. & Supply Co., Tools	15 54
	13982	Keystone Brass Co., Brass and Labor	15 90
	13983	Erie Window Glass Co., Paint and Oil	16 32
	13984	E. J. Riblet, Shop Rent	20 00
	13985	Erie Engine Works, Engine Repairs	20 11
	13986	McFayden Grain Co., Oats	21 30
	13987	Union Water Meter Co., Meter Repairs	35 70
	13988	Crosby Steam Gauge & Valve Co., Gauge	50 00
	13989	Union Oil Works, Oil	75 45
	13990	Fabric Hose Co., Fire Hose and Reel	108 33
	13991	Mehl & Sapper, Hardware	139 06
	13992	Hays Mfg. Co., Pipe, Fittings, etc.	191 79
	13993	R. D. Wood & Co., Stop Valves	372 00
	13994	W. L. Scott Co., Coal	1,110 81
	13995	Jno. Kolb, Ass't Sec'y, Sundries	27 38
	13996	Pay Roll Street Work, Disbursed by W. C. Siegel, Clerk	311 13
18	13997	Jno. Kolb, Ass't Sec'y, Sundries	17 63
	13998	Pay Roll Street Work, Disbursed by W. C. Siegel, Clerk	313 18

February—Continued.

TO PAY VOUCHER.

Date	No.	Of For	Amount.
25	13999	D. P. Murphy, Boiler Repairs	$ 4 50
	14000	Henesey Mfg. Co., Washers	15 19
	14001	Excelsior Boiler Compound Co., Boiler Compound	34 30
	14002	Pay Roll Street Work, Disbursed by W. C. Siegel, Clerk	261 21
		Total	$ 5,807 03

March.

TO PAY VOUCHER.

Date	No.	Of For	Amount.
1	14003	Frank & Hill, Agts., Rent of Office, Acc't Intake No. 2 Ext.	$ 12 00
	14004	Clark Olds, Services as Commissioner 2 months	150 00
	14005	G. F. Brevillier, Services as Commissioner 2 months	150 00
	14006	Willis B. Durlin, Services as Commissioner 2 months	150 00
	14007	Pay Roll Office & Pumping Station, Disbursed by Jno. Kolb, Ass't Sec'y	2,171 58
4	14008	Jno. Kolb, Ass't Sec'y, Sundries	10 50
	14009	F. W. Baker, On Contract for Boat	100 00
	14010	Pay Roll Street Work, Disbursed by W. C Siegel, Clerk	443 13
11	14011	Erie Rubber Stamp Works, Ink, etc.,	1 00
	14012	Erie Engine Works, Engine Repairs	1 26
	14013	J. H. Walker, Stationery	1 50
	14014	Erie Gas Co., Coke	1 50
	14015	Wm. F. Nick & Son, Acid and Photo Supplies	1 75
	14016	Erie Printing Co., Advertising	2 00
	14017	Herald Ptg. & Publishing Co., Advertising	2 00
	14018	H. Thompson, Repairing Numbering Machine	2 00
	14019	Times Publishing Co., Advertising	2 00
	14020	H. W. Noble, Connection Repairs	2 00
	14021	Andrew Hess, Connection Repairs	2 25
	14022	Palace Hardware House, Hardware	2 31

March—Continued.

TO PAY VOUCHER.

Date	No.	Of For	Amount.
11	14023	John Minnig Est., Connection Repairs	$ 2 40
	14024	H. Rosenthal, Canvas Gloves	2 75
	14025	Dispatch News Co., Advertising	2 80
	14026	Constable Bros. Co., Lumber	2 80
	14027	James L. Firman, Teaming	3 00
	14028	J. W. Rathbun, Connection Repairs	3 05
	14029	A. J. Louch, Canvas Covers	4 00
	14030	Sam'l Hanna, Horse Shoeing	4 00
	14031	R. J. Saltsman & Co., Harness Repairs and Soap	4 10
	14032	Garlock Packing Co., Packing	4 21
	14033	Erie Window Glass Co., Paint, Varnish, etc	4 28
	14034	Engineering News Publishing Co., Subscription	5 00
	14035	Union Oil Works, Oil	5 86
	14036	Dispatch Ptg. & Engraving Co., Books and Stationery	7 00
	14037	Chas. Seidel, Connection Repairs	7 40
	14038	Union Iron Works, Boiler Repairs	9 60
	14039	John Reinhold, Jr., Metal Polish	9 90
	14040	Mutual Telephone Co., Rent of Telephones	10 80
	14041	Erie Oil Co., Oil	11 66
	14042	Lyman Felheim, Lumber	12 81
	14043	The Bristol Co., Charts for Gauge	13 50
	14044	Wm. Schade, Blacksmithing	13 55
	14045	F. W. Baker, Balance on Contract for Boat	15 00
	14046	Brown & Sharpe Co., Tools	16 00
	14047	H. R. Worthington, Meter and Meter Repairs	18 90
	14048	Keystone Brass Co., Brass and Labor	19 67
	14049	The Fairbanks Co., Valves	28 50
	14050	Erie Mfg. and Supply Co., Hose and Tools	31 40

March—Continued.

TO PAY VOUCHER.

Date	No.	Of For	Amount.
11	14051	Holmes Metallic Packing Co., Packing	$ 32 90
	14052	Mehl & Sapper, Hardware	35 08
	14053	Ashby Printing Co., Stationery	37 25
	14054	Hays Mfg. Co., Pipe, Fittings, etc.	51 84
	14055	American La France Fire Engine Co., Fire Extinguishers	72 00
	14056	The W. L. Scott Co., Coal	1,017 09
	14057	Jno. Kolb, Ass't Sec'y, Sundries	5 18
	14058	Pay Roll, Street Work, Disbursed by W. C. Siegel, Clerk	234 29
	14059	E. J. Riblet, Shop Rent	20 00
18	14060	Jno. Kolb, Ass't Sec'y, Sundries	21 81
	14061	Pay Roll, Street Work, Disbursed by W. C. Siegel, Clerk	229 70
25	14062	Jno. Kolb, Asst. Sec'y, Sundries	3 20
	14063	St. John's Lutheran Church, Connection Repairs	10 10
	14064	Theodore C. Tarneski, Connection Repairs	10 20
	14065	Pay Roll, Street Work, Disbursed by W. C. Siegel, Clerk	261 93
		Total	$ 5,525 19

April.

TO PAY VOUCHER.

Date	No.	Of For	Amount.
1	14066	Jno. Kolb, Ass't Sec'y, Sundries	$ 4 60
	14067	Frank & Hill, Agts., Rent of Office, acct. Intake No. 2 Ext.	12 00
	14068	Lake Shore & Michigan Southern Ry. Co., Freight	22 94
	14069	Pay Roll, Street Work, Disbursed by W. C. Siegel, Clerk	289 50
	14070	Pay Roll, Office and Pumping Station, Disbursed by W. C. Siegel, Clerk	2,178 79
8	14071	Johannesen Mfg. Co., Repairing Furniture	1 00
	14072	Robt. J. Saltsman, Fire Clay and Lime	1 15
	14073	Davis Wall Paper Co., Window Shades	1 78
	14074	W. E. Hayes & Co., Chimneys and Wicks	1 80

April—Continued.

TO PAY VOUCHER.

Date	No.	Of	For	Amount.
8	14075	Erie Window Glass Co.,	Paint, Oil, etc.	$ 2 20
	14076	Murphy Bros.,	Tank	2 25
	14077	Erie Engine Co.,	Castings	2 46
	14078	Electric Equipment Co.,	Wire	2 75
	14079	American Water Works Ass'n,	Annual Dues	3 00
	14080	Geo. B. Swaney,	Toilet Paper	3 00
	14081	Pittsburg Meter Co.,	Meter Repairs	3 25
	14082	Wm. Schade,	Blacksmithing	3 32
	14083	G. Papesch,	Grind Stone	3 50
	14084	U. D. Sweigard,	Tin Pump and Labor	3 38
	14085	Times Publishing Co.,	Advertising	4 00
	14086	New York & Penna. Telephone & Telegraph Co.,	Rent of Telephone	4 04
	14087	Dispatch News Co.,	Advertising	4 20
	14088	Erie Printing Co.,	Advertising	4 80
	14089	Wm. F. Nick & Son,	Paint and Photo Supplies	4 95
	14090	D. Schlosser & Sons,	Meter Box	5 21
	14091	Union Iron Works,	Boiler Repairs	5 25
	14092	Herald Printing & Publishing Co.,	Advertising and Ink	5 60
	14093	H. Beckman & Sons,	Rope and Paint	6 16
	14094	Hays Mfg. Co.,	Fittings	6 39
	14095	C. Kessler,	Brooms, Soap, etc.	7 00
	14096	W. E. Louch,	Canvas Hose	8 00
	14097	Keuffel & Esser,	Engineer's Supplies	8 04
	14098	Burke Electric Co.,	Carbon and Brushes	8 24
	14099	Lyman Felheim,	Meter Box and Lumber	9 15
	14100	Samuel Hanna,	Horse Shoeing	9 90
	14101	Jno. Reinhold, Jr.,	Metal Polish and Oil	12 05
	14102	Jno Porsch,	Soil Pipe and Connection Repairs	13 25
	14103	D. P. Murphy,	Boiler Repairs	13 50

April—Continued.

TO PAY VOUCHER.

Date	No.	Of For	Amount.
8	14104	Palace Hardware House, Hardware	$ 16 58
	14105	H. Johnson Co., Packing	18 08
	14106	Erie Mfg. & Supply Co., Tools	18 47
	14107	Keystone Brass Co., Brass and Labor	19 07
	14108	E. J. Riblet, Shop Rent	20 00
	14109	McFayden Grain Co., Oats	22 80
	14110	Boyd & Schater, Cement and Sewer Pipe	23 95
	14111	Erie Oil Co., Oil	26 45
	14112	Miles B. Houghton, Trees	28 50
	14113	Excelsior Boiler Compound Co., Boiler Compound	34 30
	14114	Mehl & Sapper, Hardware	36 57
	14115	Union Oil Works, Oil	39 79
	14116	Mutual Telephone Co., Rent of Telephones	56 25
	14117	Natl. Lead Co., Solder	82 50
	14118	Dispatch Printing & Engraving Co., Stationery	117 50
	14119	Mueller Mfg. Co., Tapping Machine	140 28
	14120	H. R. Worthington, Engine Repairs	154 46
	14121	U. S. Cast Iron Pipe and Foundry Co., Pipe	412 18
	14122	Longmead Iron Co., Galvanized Pipe	575 83
	14123	W. L. Scott Co., Coal	832 28
	14124	Jacob Malthaner, Rebuilding Reservoir House,	1,017 40
	14125	John Kolb, Ass't Sec'y, Sundries	33 63
	14126	Pay Roll, Street Work, Disbursed by W. C. Siegel, Clerk	413 43
15	14127	Jno. Kolb, Ass't Sec'y, Sundries	17 46
	14128	Pay Roll, Street Work, Disbursed by W. C. Siegel, Clerk	474 47
22	14129	Henesey Mfg. Co., Washers	4 90
	14130	Becker & Jackson, Painting Reservoir House	75 00
	14131	Erie Laboratory, Testing Pipe	200 00

April—Continued.

TO PAY VOUCHER.

Date	No.	Of For	Amount.
22	14132	Pay Roll, Street Work, Disbursed by W. C. Siegel, Clerk	$ 516 46
	14133	Coffin Valve Co., Gate Valves	4,392 00
29	14134	Pay Roll, Street Work, Disbursed by W. C. Siegel, Clerk	473 60
		Total	$12,977 09

May.

TO PAY VOUCHER.

Date	No.	Of For	Amount.
1	14135	Frank & Hill, Agts., Rent of Office, acct. Intake No. 2 Ext	$ 10 00
	14136	Clark Olds, Services as Commissioner, 2 mos.	150 00
	14137	Not issued.	
	14138	G. F. Brevillier, Services as Commissioner, 2 mos.	150 00
	14139	Willis B. Durlin, Services as Commissioner, 2 mos.	150 00
	14140	Pay Roll, Office and Pumping Station, Disbursed by W. C. Siegel, Clerk	2,173 43
6	14141	Jno. Kolb, Ass't Sec'y, Sundries	17 52
	14142	Pay Roll, Street Work, Disbursed by W. C. Siegel, Clerk	595 29
	14143	Becker & Jackson, Balance on Contract Painting Reservoir House	57 00
13	14144	James L. Firman, Load Shavings	1 00
	14145	R. J. Saltsman & Co., Harness Repairs	1 00
	14146	Sunday Messenger Publishing Co., Advertising	1 00
	14147	Thomson Meter Co., Meter Repairs	1 10
	14148	G. J. Papesch, Hardware	1 35
	14149	Erie Post, Advertising	1 50
	14150	O. C. Thayer & Son, Cement	1 50
	14151	Jarecki Mfg. Co., Fittings	1 63
	14152	Wm. Heidt, Lettering Wagons	1 75
	14153	Robt. J. Saltsman, Cement	2 00
	14154	Union Water Meter Co., Meter Repairs	2 00
	14155	Erie Printing Co., Advertising	2 50

May—Continued.

TO PAY VOUCHER.

Date	No.	Of	For	Amount.
13	14156	Wm. F. Nick & Son,	Photo Supplies	$ 2 40
	14157	Jacob Simon,	Connection Repairs	2 50
	14158	Dispatch Printing & Engraving Co.,	Books and Printing	3 00
	14159	Dispatch News Co.,	Advertising	3 20
	14160	Times Publishing Co.,	Advertising	3 30
	14161	Lyman Felheim,	Lumber	3 35
	14162	Erie Gas Co.,	Coke	3 49
	14163	Constable Bros. Co.,	Lumber	3 65
	14164	Erie Engine Works,	Castings	3 90
	14165	Samuel Hanna,	Horse Shoeing	5 60
	14166	Martin Quigley,	Steel Rail	6 00
	14167	Pittsburg Meter Co.,	Meter Repairs	6 30
	14168	H. C. Dunn,	Brick	7 00
	14169	Electric Equipment Co.,	Electric Light Supplies	7 05
	14170	Erie Window Glass Co.,	Paint, Glass, etc.	7 24
	14171	Herald Printing & Pub. Co.,	Advertising and Stationery	7 30
	14172	C. Kessler,	Broom, Soap, etc	7 45
	14173	Keystone Brass Co.,	Brass and Labor	8 01
	14174	Garlock Packing Co.,	Packing	11 31
	14175	Wm. Schade,	Blacksmithing	13 61
	14176	Stevens Paint and Lubricating Co.,	Grease	14 70
	14177	Sterling Oil Co.,	Grease	16 35
	14178	Hollands Mfg. Co.,	Tools	17 30
	14179	Erie Mfg. & Supply Co.,	Hose and Top Rings	18 50
	14180	McFayden Grain Co.,	Oats	21 20
	14181	Jno. Porsch,	Closet	23 00
	14182	Erie Company,	Lamps and Electrical Supplies	24 43
	14183	E. J. Ribiet,	Shop Rent	25 25

May—Continued.

TO PAY VOUCHER.

Date	No.	Of For	Amount.
13	14184	P. Doyle, Teaming	$ 29 64
	14185	Erie Oil Co., Oil	30 26
	14186	G. J. Gebhardt, Coal	35 00
	14187	Ohio Structural Iron Co., Settees	36 00
	14188	H. Beckman & Son, Boat Supplies and Seed	42 83
	14189	Union Iron Works, Boiler Repairs	46 55
	14190	Walker Foundry Co., Castings	55 11
	14191	Mehl & Sapper, Hardware	65 02
	14192	H. Johnson Co., Packing	72 46
	14193	D. Schlosser & Sons, Lumber	97 82
	14194	Hays Mfg. Co., Pipe Fittings, etc.	299 59
	14195	Ashby Printing Co., Bills, etc.	327 78
	14196	U. S. Cast Iron Pipe and Foundry Co., Pipe	778 64
	14197	W. L. Scott Co., Coal	851 65
	14198	Jno. Kolb, Ass't Sec'y, Sundries	45 30
	14199	Pay Roll, Street Work, Disbursed by W. C. Siegel, Clerk	696 34
20	14200	Excelsior Boiler Compound Co., Boiler Compound	34 30
	14201	Jno. Kolb, Ass't Sec'y, Sundries	62 66
	14202	Pay Roll, Street Work, Disbursed by W. C. Siegel, Clerk	742 12
	14203	James Firman, Hay	18 13
27	14204	John M. Schlager, Cleaning Office	5 00
	14205	Pay Roll, Street Work, Disbursed by W. C. Siegel, Clerk	745 20
	14206	The T. A. Gillespie Co., On Contract for Intake No. 2 Extension	20,000 00
		Total	$28,715 26

June.

TO PAY VOUCHER.

Date	No.	Of	For	Amount.
1	14207	Frank & Hill, Agts.,	Rent of Office, acct. Intake No. 2 Ext.	$ 10 00
	14208	Pay Roll, Office and Pumping Station,	Disbursed by Jno. Kolb, Asst. Sec'y	2,180 60
3	14209	Jno. Kolb. Ass't. Sec'y,	Sundries	28 53
	14210	Erie Laboratory,	Testing Steel Pipe	200 00
	14211	Pay Roll, Street Work,	Disbursed by W. C. Siegel, Clerk	624 61
10	14212	Municipal Engineering Co.,	Subscription	1 00
	14213	H. Beckman & Sons,	Paint Brush	1 00
	14214	Erie City Iron Works,	Boiler Repairs	1 25
	14215	Erie Machine Shop,	Casting and Machine Work	1 52
	14216	Electric Equipment Co.,	Batteries	1 80
	14217	M. G. Mayo,	Leather	1 90
	14218	Union Ice Co.,	Ice	1 93
	14219	Paasch Bros.,	Pair Oars	2 00
	14220	P. Felbinger,	Harness Repairs	2 05
	14221	Crosby Steam Gauge & Valve Co.,	Gauge	3 01
	14222	Dispatch News Co.,	Advertising	3 80
	14223	Lyman Felheim,	Lumber	3 91
	14224	Boyd & Schafer,	Cement	3 92
	14225	Herald Printing & Publishing Co.,	Advertising	4 00
	14226	Murphy Bros.,	Pails and Tin Pump	4 29
	14227	Erie Gas Co.,	Coke	4 62
	14228	Erie Laboratory,	Analysis	5 00
	14229	Union Water Meter Co.,	Meter Repairs	5 20
	14230	Erie Oil Co.,	Oil	5 25
	14231	Keystone Carriage Co.,	Wagon Repairs	5 25
	14232	Union Iron Works,	Boiler Repairs	5 35
	14233	Jno. Porsch,	Sink, Brackets and Trap	5 46
	14234	Wm. Schade,	Blacksmithing	5 56

June—Continued.

TO PAY VOUCHER.

Date	No.	Of For	Amount.
10	14235	Erie Printing Co., Advertising	$ 6 10
	14236	Samuel Hanna, Horse Shoeing	7 60
	14237	C. Kessler, Brooms, Soap, etc	8 20
	14238	G. L. Siegel, Salt and Sulphate of Copper	8 25
	14239	Thomson Meter Co., Meter Repairs	9 16
	14240	Mulconroy Co., Hose	9 36
	14241	G. J. Gebhardt, Coal	10 00
	14242	Keystone Brass Co., Brass and Labor	10 71
	14243	F. R. Simmons, Leather	11 04
	14244	Erie Engine Works, Machine Steel and Pattern Work	11 75
	14245	Library Bureau, Stationery	12 94
	14246	Erie Window Glass Co., Paint, Glass, Etc	15 64
	14247	Erie Mfg. & Supply Co., Waste and Steam Hose	17 04
	14248	H. R. Worthington, Engine Repairs	18 07
	14249	Times Publishing Co., Advertising and Printing	21 80
	14250	J. M. Lynch, Boiler Inspection	24 00
	14251	E. J. Riblet, Cots, Pillows and Shop Rent	25 00
	14252	Palace Hardware House, Hardware	25 32
	14253	Jno. Reinhold, Jr., Paint and Varnish	26 00
	14254	Walker Foundry Co., Castings	71 02
	14255	Mehl & Sapper, Hardware	101 17
	14256	Union Oil Works, Oil	140 87
	14257	Geo. P. Miller, Taxes—State and County	237 50
	14258	R. D. Wood & Co., Fire Hydrants	324 00
	14259	Ashby Printing Co., Annual Reports	438 40
	14260	Hays Mfg. Co., Curb Boxes, Pipe Fitting, Etc	537 54
	14261	Pittsburg & Erie Coal Co., Coal	587 50
	14262	U. S. Cast Iron Pipe & Foundry Co., Pipe	958 45

June—Continued.

TO PAY VOUCHER.

Date	No.	Of For	Amount.
10	14263	Jno. Kolb, Assistant Secretary, Sundries	$ 8 45
	14264	Pay Roll Street Work, Disbursed by W. C. Siegel, Clerk	766 57
17	14265	John Kolb, Assistant Secretary, Sundries	4 18
	14266	Pay Roll Street Work, Disbursed by W. C. Siegel, Clerk	704 83
24	14267	John Kolb, Assistant Secretary, Sundries	8 08
	14268	White & Skinner, Painting Boat House	17 50
	14269	Pay Roll Street Work, Disbursed by W. C. Siegel, Clerk	684 47
26	14270	Jno. Wahl Commission Co., Lead	1,335 90
28	14271	The T. A. Gillespie Co., On Contract Intake No. 2 Extension	35,000 90
		Total	$45,327 11

July.

TO PAY VOUCHER.

Date	No.	Of For	Amount.
1	14272	Mrs. Orilla Block, Washing Towels, Six Months	$ 6 00
	14273	Frank & Hill, Agents, Rent of Office, Account Intake No. 2 Extension	10 00
	14274	F. P. Church, Acting Assistant Secretary, Sundries	10 47
	14275	Lake Shore & Michigan Southern Ry. Co., Freight	33 00
	14276	Clark Olds, Services as Commissioner, Two Months	150 00
	14277	G. F. Brevillier, Services as Commissioner, Two Months	150 00
	14278	Willis B. Durlin, Services as Commissioner, Two Months	150 00
	14279	Pay Roll Street Work, Disbursed by W. C. Siegel, Clerk	795 91
	14280	Longmead Iron Co., Galvanized Pipe	868 30
	14281	Pay Roll Office and Pumping Station, Disbursed by F. P. Church, Act. Assist. Secretary	2,251 93
8	14282	P. Felbinger, Harness Repairs	1 15
	14283	Harry Thompson, Cleaning Arithmometer	1 50
	14284	Dr. J. C. Elviage, Veterinary Services	2 00
	14285	Erie Photo Supply Co., Photo Supplies	2 17
	14286	Burke Electrical Co., Repairs to Electric Light Plant	2 35

July—Continued.

TO PAY VOUCHER.

Date	No.	Of	For	Amount.
8	14287	Warner Bros.,	Linoleum	$ 2 50
	14288	A. F. Bush,	Electric Light at Barn	3 00
	14289	Detroit Auto Marine Co.,	Plugs	3 00
	14290	Public Grocery Supply Co.,	Rolled Oats	3 00
	14291	Erie Gas Co.,	Coke	3 17
	14292	C. Kessler,	Brooms, Soap, Etc.	3 50
	14293	Erie City Iron Works,	Boiler Repairs	3 75
	14294	Russell & Co.,	Window Shades	3 78
	14295	New York & Penna. Tel. & Tel. Co.,	Rent of Telephone	4 04
	14296	Keystone Brass Co.,	Brass and Labor	4 08
	14297	A. J. Louch,	Canvas Cover	4 50
	14298	Jacob J. Illig,	Brooms	5 50
	14299	Union Iron Works,	Repairing Lead Furnaces	5 65
	14300	Palace Hardware House,	Hardware	6 09
	14301	Erie Mfg. & Supply Co.,	Brass Tubes and Labor	6 10
	14302	Gustave Bauman & Sons,	Cleaning Carpets	6 30
	14303	Builders' Supply & Sand Co.,	Sand	8 40
	14304	Erie Window Glass Co.,	Paint and Oil	9 30
	14305	G. L. Siegel,	Lawn Mower	9 60
	14306	Union Ice Co.,	Ice	10 40
	14307	Jas. D Johnson & Co.,	Lumber	13 44
	14308	Wm. Schade,	Blacksmithing	13 77
	14309	Erie Company,	Fan	15 50
	14310	H. Beckman & Son,	Rope and Varnish	16 18
	14311	H. C. Dunn,	Brick	16 80
	14312	Dr. P. Hall,	Paint	17 60
	14313	E. J. Riblet,	Shop Rent	20 00
	14314	McFayden Grain Co.,	Oats	20 50

July—Continued.

TO PAY VOUCHER.

Date	No.	Of	For	Amount.
8	14315	Electric Equipment Co.,	Repairs to Electric Light Plant	$ 21 65
	14316	Erie Oil Co.,	Oil	29 86
	14317	Erie Heating & Plumbing Co.,	Water Closet and Labor	30 00
	14318	New York, Chicago & St. Louis Railroad Co.,	Freight	37 52
	14319	Walker Foundry Co.,	Castings	38 32
	14320	Lyman Felheim,	Lumber	52 05
	14321	Mutual Telephone Co.,	Rent of Telephones	56 25
	14322	Union Oil Works,	Oil	58 60
	14323	P. Doyle,	Teaming	68 70
	14324	Boyd & Schafer,	Cement	69 34
	14325	Pennsylvania Company,	Repairing Switch	97 30
	14326	Mehl & Sapper,	Hardware	135 08
	14327	Holmes Metallic Packing Co.,	Packing	176 00
	14328	Hays Mfg. Co.,	Curb Boxes, Fittings, Etc.	355 14
	14329	F. P. Church, Acting Assistant Secretary,	Sundries	17 79
	14330	Pay Roll Street Work,	Disbursed by W. C. Siegel, Clerk	667 69
	14331	Erie Laboratory,	Testing Steel Pipe	269 40
	14332	The T. A. Gillespie Co.,	Extra Work on Intake No. 2 Extension	513 35
15	14333	F. P. Church, Acting Assistant Secretary,	Sundries	14 49
	14334	The Standard Calorimeter Co.,	Tools	154 50
	14335	Pay Roll Street Work,	Disbursed by W. C. Siegel, Clerk	737 41
	14336	The T. A. Gillespie Co.,	On Contract Intake No. 2 Extension	10,562 32
22	14337	Mayer Bros.,	Repairing Cuts in Paved Street	425 54
	14338	Coffin Valve Co.,	Gate Valves	488 00
	14339	Pittsburg & Erie Coal Co.,	Coal	604 59
	14340	Pay Roll Street Work,	Disbursed by W. C. Siegel, Clerk	775 82

July—Continued.

TO PAY VOUCHER.

Date	No.	Of	For	Amount.
29	14341	John Kolb, Assistant Secretary,	Sundries	$ 6 18
	14342	Excelsior Boiler Compound Co.,	Boiler Compound	34 30
	14343	Pay Roll Street Work,	Disbursed by W. C. Siegel, Clerk	788 70
		Total		$21,960 12

August.

TO PAY VOUCHER.

Date	No.	Of	For	Amount.
1	14344	Chas. B. Hall, Agent,	Rent of Office, Account Intake No. 2 Extension	$ 10 00
	14345	Pay Roll Office and Pumping Station,	Disbursed by John Kolb, Assistant Secretary	2,249 11
5	14346	John Kolb, Assistant Secretary,	Sundries	13 73
	14347	Theodore F. Noble,	Court Costs	14 13
	14348	Boston Woven Hose & Rubber Co.,	Hose	110 50
	14349	Pay Roll Street Work,	Disbursed by W. C. Siegel, Clerk	602 39
12	14350	Boyd & Schafer,	Cement	1 00
	14351	Gus J. Miller,	Horse Medicine	1 00
	14352	John J. O'Brien,	Printing	1 00
	14353	Lovell Mfg. Co.,	Galvanizing Bolts	1 20
	14354	Kirschner Bros.,	Repairing Meter Box	1 25
	14355	Emil Streuber,	Tallow	1 28
	14356	New York Tea Co.,	Matches	1 40
	14357	Board of Education,	Account of Leak in Main	1 65
	14358	Times Publishing Co.,	Advertisements	1 65
	14359	Dr. J. C. Elviage,	Veterinary Services	2 00
	14360	Jarecki Mfg. Co.,	Brass Fittings	2 32
	14361	Union Ice Co.,	Ice	2 50
	14362	Garlock Packing Co.,	Packing	2 81
	14363	George L. Siegel,	Tools and Oil Meal	3 05
	14364	Dr. P. Hall & Son,	Paints, Etc.	3 10

August—Continued.

TO PAY VOUCHER.

Date	No.	Of	For	Amount.
12	14365	H. R. Worthington,	Meter Repairs	$ 3 40
	14366	Lyman Felheim,	Lumber	3 65
	14367	H. Beckman & Son,	Chloride of Lime and Seed	4 40
	14368	Erie Gas Co.,	Coke	4 47
	14369	F. R. Simmons,	Leather	4 50
	14370	Edison Construction & Supply Co.,	Electric Light Repairs	4 57
	14371	G. J. Gebhardt,	Coal	5 00
	14372	Burrough Adding Machine Co.,	Stationery	6 25
	14373	Hollands Mfg. Co.,	Tools	6 58
	14374	F. Dudenhoefer,	Brick	7 00
	14375	Mrs. Max Raedsch,	Connection Repairs	8 00
	14376	C. Kessler,	Brooms, Soap, Etc.	8 40
	14377	Union Water Meter Co.,	Meter Repairs	8 75
	14378	H. C. Dunn,	Brick	10 50
	14379	Keystone Brass Co.,	Brass and Labor	12 33
	14380	O. C. Thayer & Son,	Cement	12 90
	14381	Union Ice Co.,	Ice	13 90
	14382	J. D. Johnson & Co.,	Lumber	14 17
	14383	Erie Window Glass Co.,	Paint, Oils, Etc.	14 46
	14384	Cleveland Trinidad Paving Co.,	Repairing Paved Streets	15 33
	14385	Samuel Hanna,	Horse Shoeing	15 50
	14386	Wm. Schade,	Blacksmithing	15 65
	14387	Erie Engine Works,	Machine Work	16 50
	14388	Stevens Paint & Lubricating Co.,	Paint	16 60
	14389	Palace Hardware House,	Hardware	16 80
	14390	The Himrod Engraving Co.,	Stationery	18 75
	14391	Erie Mfg. & Supply Co.,	Hose, Valves and Packing	19 05
	14392	W. H. Gingrich,	Oats	22 00

August—Continued.

TO PAY VOUCHER.

Date	No.	Of For	Amount.
12	14393	Dispatch Printing & Engraving Co., Books and Stationery	$ 24 00
	14394	Constable Bros. Co., Lumber	34 02
	14395	H. Johnson Co., Packing	34 12
	14396	E. J. Riblet, Shop Rent	36 25
	14397	Robb Floral Co., Flowers at Pumping Station and Reservoir	37 00
	14398	Walker Foundry Co., Castings	49 66
	14399	P. Doyle, Teaming	61 39
	14400	W. E. Long, Collector of Taxes, Taxes Sixth Ward	62 25
	14401	Continental Rubber Co., Hose	93 00
	14402	Ashby Printing Co., Stationery	113 05
	14403	Erie Forge Co., Forgings	141 00
	14404	Union Oil Works, Oil	142 57
	14405	Hays Mfg. Co., Fittings, Etc.	258 15
	14406	Mehl & Sapper, Hardware	315 36
	14407	Holmes Metallic Packing Co., Packing	412 00
	14408	R. D. Wood & Co., Fire Hydrants and Stop Valves	606 00
	14409	Pittsburg & Erie Coal Co., Coal	665 25
	14410	U. S. Cast Iron, Pipe & Foundry Co., Pipe	1,303 82
	14411	The T. A. Gillespie Co., On Contract Intake No. 2 Extension	1,368 00
	14412	John Kolb, Assistant Secretary, Sundries	32 12
	14413	Pay Roll Street Work, Disbursed by W. C. Siegel, Clerk	633 14
19	14414	John Kolb, Assistant Secretary, Sundries	6 60
	14415	F. Schlaudecker & Son, Insurance	7 50
	14416	James Firman, Hay	16 06
	14417	S. A. Davenport, Counsel Fees and Expense	100 00
	14418	Meehan Boiler & Construction Co., Taking Down Steel Chimney	360 00
	14419	Pay Roll Street Work, Disbursed by W. C. Siegel, Clerk	600 43

August—Continued.

TO PAY VOUCHER.

Date	No.	Of For	Amount.
26	14420	Boston Woven Hose & Rubber Co., Hose	$ 16 29
	14421	D. P. Murphy, Brick Work on Buildings and Boilers	76 00
	14422	Pay Roll Street Work, Disbursed by W. C. Siegel, Clerk	632 50
		Total	$11,574 01

September.

TO PAY VOUCHER.

Date	No.	Of For	Amount.
1	14423	Chas. B. Hall, Agent, Rent of Office, Account Intake No. 2 Extension	$ 10 00
	14424	Clark Olds, Services as Commissioner, Two Months	150 00
	14425	G. F. Brevillier, Services as Commissioner, Two Months	150 00
	14426	Willis B. Durlin, Services as Commissioner, Two Months	150 00
	14427	Pay Roll Office and Pumping Station, Disbursed by John Kolb, Assistant Secretary	2,253 70
2	14428	John Kolb, Assistant Secretary, Sundries	10 55
	14429	Pay Roll Street Work, Disbursed by W. C. Siegel, Clerk	635 55
9	14430	Jarecki Mfg. Co., Hydrant Repairs	1 25
	14431	P. Felbinger, Harness Repairs and Soap	1 30
	14432	Erie Photo Supply Co. Photo Supplies	1 67
	14433	Erie Heating & Plumbing Co., Air Tank and Plumbing	1 90
	14434	Erie Gas Co., Coke	1 95
	14435	Public Grocery Supply Co., Rolled Oats	2 00
	14436	Palace Hardware House, Hardware	2 10
	14437	Hollands Mfg. Co., Tools	2 16
	14438	D. Schlosser & Sons, Tools	2 81
	14439	Erie Directory Co., City Directory	3 00
	14440	Thomson Meter Co., Meter Repairs	3 25
	14441	H. C. Dunn, Brick	3 50
	14442	Keystone Carriage Co., Wagon Repairs	3 60
	14443	Standard Calorimeter Co., Tools	4 00

September—Continued.

TO PAY VOUCHER.

Date	No.	Of For	Amount.
9	14444	Trask, Prescott & Richardson, Toweling	$ 4 60
	14445	Eugene Dietzgen Co., Engineers' Supplies	5 35
	14446	Boyd & Schafer, Cemen	5 40
	14447	Wm. F. Nick & Son, Tools and Acid	5 40
	14448	J. V. Yelgerhouse, Thermometers	5 40
	14449	Keystone Brass Co., Brass and Labor	5 57
	14450	A. J. Louch, Canvas Cover	5 75
	14451	Ashby Printing Co., Stationery	5 80
	14452	Herald Printing & Publishing Co., Book	6 00
	14453	Erie Engine Works, Engine Repairs and Tools	6 37
	14454	Erie Printing Co., Advertising	6 74
	14455	W. E. Louch, Hose	7 50
	14456	Lyman Felheim, Lumber	8 99
	14457	H. Beckman & Son, Rope, Brooms, Soap, Etc.	9 07
	14458	U. D. Sweigard, Repairing Roof and Tools	9 38
	14459	Herald Printing & Publishing Co., Advertising	10 50
	14460	H. R. Worthington, Engine Repairs	10 56
	14461	Union Ice Co., Ice	12 88
	14462	Times Publishing Co., Advertising	12 90
	14463	Samuel Hanna, Horse Shoeing	13 60
	14464	Dispatch-News Co., Advertising	13 80
	14465	John Reinhold, Jr., Metal Polish	16 80
	14466	E. J. Riblet, Shop Rent	20 00
	14467	Miller Grain Co., Oats	20 00
	14468	Murphy Bros., Tools	22 05
	14469	Wm. Schade, Blacksmithing	22 80
	14470	National Paint & Varnish Co., Paint	22 94
	14471	Mehl & Sapper, Hardware	23 04

September—Continued.

TO PAY VOUCHER.

Date	No.	Of For	Amount.
9	14472	Erie Oil Co., Oil	$ 29 89
	14473	Walker Foundry Co., Castings	33 74
	14474	Erie Oil Co., Oil	36 04
	14475	Fairbanks Co., Tools	45 00
	14476	Holly Mfg. Co., Engine Repairs	50 00
	14477	O. C. Thayer & Son, Crushed Stone and Cement	51 00
	14478	R. D. Wood & Co., Fire Hydrant Repairs	126 07
	14479	Hays Mfg. Co., Pipe, Fittings, Etc.	192 51
	14480	Erie Mfg. & Supply Co., Hose and Waste	222 44
	14481	Union Iron Works, Temporary Stacks and Repairing Tools	582 29
	14482	Pittsburg & Erie Coal Co., Coal	688 65
	14483	U. S. Cast Iron Pipe & Foundry Co., Pipe	1,503 89
	14484	T. A. Gillespie Co., On Contract Intake No. 2 Extension	2,508 00
	14485	P. Doyle, Teaming	47 00
	14486	John Kolb, Assistant Secretary, Sundries	19 37
	14487	Pay Roll Street Work, Disbursed by W. C. Siegel, Clerk	581 90
16	14488	C. F. Splitdorf, Spark Coils	19 11
	14489	Excelsior Boiler Compound Co., Boiler Compound	34 30
	14490	Electric Equipment Co., Fans, Wiring, Etc.	103 87
	14491	Pay Roll Street Work, Disbursed by W. C. Siegel, Clerk	678 17
23	14492	John Kolb, Assistant Secretary, Sundries	7 80
	14493	James Firman, Hay	20 74
	14494	James F. Trainor, On Contract Taking Down Chimney	65 00
	14495	Pay Roll Street Work, Disbursed by W. C. Siegel, Clerk	668 97
30	14496	John Kolb, Assistant Secretary, Sundries	9 04
	14497	William P. Mason, Analyses of Water	80 00
	14498	James F. Trainor, On Contract Taking Down Chimney	80 00
	14499	Pay Roll Street Work, Disbursed by W. C. Siegel, Clerk	685 50
		Total	$12,883 86

October.

TO PAY VOUCHER.

Date	No.	Of For	Amount.
2	14,500	Chas. B. Hall, Agent, Rent of Office Account Intake No. 2 Extension...	$ 10 00
	14,501	Pay Roll Office and Pumping Station, Disbursed by John Kolb, Assistant Secretary....	2,263 88
7	14502	D. P. Murphy, Boiler Repairs.....	2 50
	14503	Pennsylvania Company, Freight on Stone.....	24 00
	14504	John Kolb, Assistant Secretary, Sundries	38 91
	14505	James F. Trainor, On Contract Taking Down Chimney.....	75 00
	14506	Pay Roll Street Work, Disbursed by W. C. Siegel, Clerk.....	633 05
	14507	Board of Commissioners of Sinking Fund of the City of Erie.....	20,000.00
	14508	The T. A. Gillespie Co., , On Contract Intake No. 2 Extension.....	2,067 20
14	14509	Burke Electric Co., Electric Light Repairs.....	1 00
	14510	Public Grocery Supply Co., Rolled Oats.....	1 00
	14511	Holmquist Photo Co., Photo Supplies.....	1 00
	14512	Builders' Supply & Sand Co., Sand	1 20
	14513	Harry Thompson, Cleaning Arithmometer.....	1 50
	14514	E. Dietzgen Co., Engineers' Supplies.....	1 60
	14515	O. C. Thayer & Son, Cement	1 80
	14516	Continental Rubber Works, Repairs Rubber Wheels.....	2 00
	14517	Kirschner Bros., Meter Box	2 25
	14518	Constable Bros. Co., Lumber	2 60
	14519	Murphy Bros., Repairing Tools.....	2 75
	14520	Jarecki Mfg. Co., Valve	3 42
	14521	Mayer Bros., Repairing Paved Streets.....	3 48
	14522	George A. Disque, Repairing Gauge.....	4 00
	14523	N. Y. & Penna. Tel. & Tel. Co., Rent of Telephone.....	4 04
	14524	John Reinhold, Jr. Paint, Oil, Etc.....	4 15
	14525	J. H. Walker, Stationery	4 25
	14526	Trask, Prescott & Richardson, Toweling	4 40

October—Continued.

TO PAY VOUCHER.

Date	No.	Of For	Amount.
14	14527	J. F. Siegel Oil Co., Oil	$ 4 42
	14528	G. L. Siegel, Seed	4 50
	14529	Electric Equipment Co., Electrical Supplies	5 15
	14530	Erie Heating & Plumbing Co., Soil Pipes	5 85
	14531	Erie Gas Co., Coke	6 19
	14532	C. Kessler, Brooms, Soap, Etc.	6 85
	14533	Boyd & Schafer, Cement	6 98
	14534	William Schade, Blacksmithing	9 89
	14535	Jeffery Mfg. Co., Tools	9 90
	14536	Hollands Mfg. Co., Tools	10 10
	14537	Union Iron Works, Boiler Repairs	10 25
	14538	Samuel Hanna, Horse Shoeing	10 30
	14539	Keuffel & Esser, Engineers' Supplies	10 61
	14540	Erie Mfg. & Supply Co., Gate Valves	12 15
	14,541	Keystone Brass Co., Brass and Labor	12 64
	14542	Union Ice Co., Ice	12 80
	14543	Ashby Printing Co., Stationery	18 30
	14544	Mehl & Sapper, Hardware	19 87
	14545	E. J. Riblet, Shop Rent	20 00
	14546	H. C. Dunn, Brick	22 40
	14547	Erie Window Glass Co., Paint, Oil, Etc.	25 02
	14548	H. Johnson Co., Packing	25 42
	14549	The Bristol Co., Recording Gauge	28 00
	14550	H. Beckman & Son, Rope	29 93
	14551	Walker Foundry Co., Castings	37 18
	14552	P. Doyle, Teaming	47 65
	14553	Mutual Telephone Co., Rent of Telephones	56 25
	14554	Dispatch Printing & Engraving Co., Stationery	89 75

October—Continued.

TO PAY VOUCHER.

Date	No.	Of For	Amount.
14	14555	Union Water Meter Co., Meter Repairs	$ 92 63
	14556	Union Oil Works, Oil	107 03
	14557	Hays Mfg. Co., Pipe Fittings, Etc	154 87
	14558	Pittsburg & Erie Coal Co., Coal	767 85
	14559	U. S. Cast Iron Pipe & Foundry Co., Pipe	1,024 00
	14560	Mutual Ice Co., Ice	2 50
	14561	Joseph Held, Meter Box	4 75
	14562	John Kolb, Assistant Secretary, Sundries	14 00
	14563	Pay Roll Street Work, Disbursed by W. C. Siegel, Clerk	593 34
	14564	James F. Trainor, On Contract Taking Down Chimney	85 00
17	14565	James F. Trainor, Balance on Contract Taking Down Chimney	51 30
21	14566	Henesey Mfg. Co., Washers	9 80
	14567	F. H. Wheeler, Carburetor	31 85
	14568	John Kolb, Assistant Secretary, Sundries	34 57
	14569	Pay Roll Street Work, Disbursed by R. W. Thomas, Clerk	709 26
	14570	P. Doyle, Teaming	38 60
28	14571	John Kolb, Assistant Secretary, Sundries	4 81
	14572	Excelsior Boiler Compound Co., Boiler Compound	34 30
	14573	Pay Roll Street Work, Disbursed by W. C. Siegel, Clerk	669 94
		Total	$30,151 73

November.

TO PAY VOUCHER.

Date	No.	Of For	Amount.
1	14574	Chas. B. Hall, Agent, Rent of Office Account Intake No. 2 Extension	$ 10 00
	14575	Clark Olds, Services as Commissioner, Two Months	150 00
	14576	G. F. Brevillier, Services as Commissioner, Two Months	150 00
	14577	Willis B. Durlin, Services as Commissioner, Two Months	150 00
	14578	Pay Roll Station and Office, Disbursed by John Kolb, Assistant Secretary	2,196 27

November—Continued.

TO PAY VOUCHER.

Date	No.	Of For	Amount.
4	14579	John Kolb, Assistant Secretary, Sundries	$ 16 67
	14580	Pay Roll Street Work, Disbursed by R. W. Thomas, Clerk	606 25
	14581	The T. A. Gillespie Co., On Contract Intake No. 2 Extension	3,610 00
11	14582	J. H. Walker, Stationery	1 00
	14583	P. Felbinger, Harness Repairs	1 05
	14584	W. J. Sell, Fountain Pen	1 50
	14585	Himrod Engraving Co., Stationery	1 59
	14586	G. L. Siegel, Rock Salt	1 50
	14587	Patterson & Sterling, Tools	1 82
	14588	Hollands Mfg Co., Tools	1 83
	14589	Le Valley Vitae Carbon Brush Co., Carbons	2 38
	14590	Herald Printing & Publishing Co., Advertising	2 40
	14591	Thomson Meter Co., Meter Repairs	2 56
	14592	John Reinhold, Jr., Lard Oil and Sponges	2 90
	14593	American Mfg. & Novelty Co., Shavings	3 00
	14594	Erie Printing Co., Advertising	3 20
	14595	Holmquist Photo Co., Photo Supplies	3 20
	14596	Ashby Printing Co., Stationery	3 60
	14597	Jarecki Mfg. Co., Fittings	3 72
	14598	Dispatch-News Co., Advertising	3 90
	14599	Times Publishing Co., Advertising	3 90
	14600	Pittsburg Meter Co., Meter Repairs	4 54
	14601	Kirschner Bros. Meter Box	5 25
	14602	Library Bureau, Stationery	5 68
	14603	S. Hanna, Horse Shoeing	6 50
	14604	O. C. Thayer & Son, Cement	6 90
	14605	Erie Gas Co., Coke	7 14
	14606	Boyd & Schafer, Cement	8 00

November—Continued.

TO PAY VOUCHER.

Date	No.	Of	For	Amount.
11	14607	Union Ice Co.,	Ice	$ 8 25
	14608	H. Beckman & Son,	Brooms, Soap and Rope	10 19
	14609	Erie Engine Works,	Engine Repairs	11 44
	14610	Electric Equipment Co.,	Electrical Supplies	12 37
	14611	Erie Mfg. & Supply Co.,	Tools and Engine Repairs	16 78
	14612	Miller Grain Co.,	Oats	18 45
	14613	Garlock Packing Co.,	Packing	22 56
	14614	H. C. Dunn,	Brick	23 80
	14615	E. J Riblet,	Shop Rent and Table Cover	28 75
	14616	Dispatch Printing & Engraving Co.,	Stationery	34 65
	14617	Union Oil Works,	Oil	43 60
	14618	D. P. Murphy,	Brick Work	45 00
	14619	F. R. Simmons,	Barn Rent, 10 Months	50 00
	14620	Mehl & Sapper,	Hardware	51 53
	14621	Keystone Brass Co.,	Brass and Labor	54 49
	14622	Walker Foundry Co.,	Castings	54 60
	14623	P. Doyle,	Teaming	55 90
	14624	Erie Oil Co.	Oil	56 40
	14625	Burke Electric Co.,	Electric Light Repairs	68 84
	14626	Union Water Meter Co.,	Meter and Meter Repairs	205 25
	14627	Hays Mfg. Co.,	Pipe, Fittings, Etc.	324 34
	14628	Pittsburg & Erie Coal Co.,	Coal	675 98
	14629	U. S. Cast Iron Pipe & Foundry Co.,	Pipe	944 36
	14630	John Kolb, Assistant Secretary,	Sundries	39 78
	14631	Pay Roll Street Work,	Disbursed by R. W. Thomas, Clerk	631 57
	14632	John Kolb, Assistant Secretary,	Sundries	29 82
	14633	Pay Roll Street Work,	Disbursed by R. W. Thomas, Clerk	594 39
	14634	John Wills,	Tools	1 50

November—Continued.

TO PAY VOUCHER.

Date	No.	Of For	Amount.
25	14635	John Kolb, Assistant Secretary, Sundries	$ 83 33
	14636	Pay Roll Street Work, Disbursed by R. W. Thomas, Clerk	675 35
		Total	$11,851 43

December.

TO PAY VOUCHER.

Date	No.	Of For	Amount.
1	14637	Chas. B. Hall, Agent, Rent of Office Intake No. 2 Extension	$ 10 00
	14638	Pay Roll Office and Pumping Station, Disbursed by John Kolb, Assistant Secretary	2,181 18
2	14639	John Kolb, Assistant Secretary, Sundries	23 86
	14640	Pay Roll Street Work, Disbursed by R. W. Thomas, Clerk	537 20
	14641	The T. A. Gillespie Co., On Contract Intake No 2 Extension	4,050 80
	14642	The T. A. Gillespie Co., On Contract Intake No. 2 Extension	8,955 27
9	14643	Emil Streuber, Leather	1 00
	14644	W. J. Sell, Agent, Fountain Pen	1 00
	14645	P. Felbinger, Harness Repairs	1 20
	14646	Burke Electric Co., Repairs to Coal Elevator	1 28
	14647	Hollands Mfg. Co., Tools	1 35
	14648	Boyd & Schafer, Cement	1 50
	14649	Erie Engine Co., Engine Repairs	1 58
	14650	Electric Equipment Co., Electrical Supplies	1 68
	14651	E. Dietzgen Co., Engineers' Supplies	1 76
	14652	Dispatch Printing & Engraving Co., Stationery	2 00
	14653	J. H. Walker, Stationery	2 00
	14654	F. H. Schaper, Electric Light at Barn	2 25
	14655	Constable Bros. Co., Lumber	2 60
	14656	Holmquist Photo Co., Photo Supplies	2 87
	14657	U. D. Sweigard, Repairs to Building	3 58
	14658	Erie Mfg. & Supply Co., Engine Repairs	3 79

December—Continued.

TO PAY VOUCHER.

Date	No.	Of	For	Amount.
9	14659	H. F. Watson Co.,	Coating	$ 4 58
	14660	J. F. Siegel Oil Co.,	Oil	4 94
	14661	G. J. Gebhardt,	Coal	5 00
	14662	Kirschner Bros.,	Meter Box	5 15
	14663	Lobee Pump & Mach. Co.,	Pump	6 15
	14664	J. H. Buys,	Coal	6 25
	14665	O. C. Thayer & Son,	Cement	6 30
	14666	Garlock Packing Co.,	Packing	6 30
	14667	Jno. Reinhold, Jr.,	Polish, etc.	8 40
	14668	Erie Window Glass Co.	Paint, Oil, etc.	8 60
	14669	Wm. Schade,	Blacksmithing	9 72
	14670	Samuel Hanna,	Horse Shoeing	9 80
	14671	J. Jacobs,	Oil Skin Coats	10 00
	14672	Erie Gas Co.,	Coke	11 52
	14673	Keystone Brass Co.,	Brass and Labor	13 83
	14674	Consumers' Oil Co.,	Grease	14 36
	14675	J. E. Mahoney,	Coal and Wood	17 50
	14676	E. J. Riblet,	Shop Rent	20 00
	14677	J. M. Lynch,	Boiler Inspection	24 00
	14678	H. C. Dunn,	Brick	25 20
	14679	Excelsior Boiler Compound Co.,	Boiler Compound	27 44
	14680	Mehl & Sapper,	Hardware	31 76
	14681	Walker Foundry Co.,	Castings	37 70
	14682	Warner Bros.,	Matting	50 88
	14683	Union Iron Works,	Repairs to Chimney	51 59
	14684	Palace Hardware House,	Hardware	53 90
	14685	P. Doyle,	Teaming	75 40
	14686	Union Oil Works,	Oil	86 03

December—Continued.

TO PAY VOUCHER.

Date	No.	Of For	Amount.
9	14687	Union Water Meter Co., Meter Repairs	$ 88 75
	14688	Hays Mfg. Co., Pipe Fittings, etc.	199 24
	14689	R. D. Wood & Co., Stop Valves and Hyd. Repairs	345 70
	14690	Pittsburg & Erie Coal Co., Coal	871 20
	14691	U. S. Cast Iron Pipe & Foundry Co., Pipe	2,141 41
	14692	Jno. Kolb, Assistant Secretary, Sundries	18 76
	14693	Pay Roll Street Work, Disbursed by R. W. Thomas Clerk	597 26
16	14694	John Kolb, Assistant Secretary, Sundries	94 49
	14695	Isador Sobel, P. M., Postage Stamps	120 00
	14696	Pay Roll Street Work, Disbursed by R. W. Thomas, Clerk	577 96
21	14697	Jas. L. Firman, Hay	19 74
	14698	Clark Olds, Services as Commissioner 2 Mo.	150 00
	14699	G. F. Brevillier, Services as Commissioner 2 Mo.	150 00
	14700	Willis B. Durlin, Services as Commissioner 2 Mo.	150 00
	14701	Patrick Doyle, Teaming	33 44
	14702	Pay Roll Office and Station, Disbursed by Jno. Kolb Asst. Secy.	2,224 84
	14703	John Kolb, Assistant Secretary, Sundries	10 29
23	14704	Pay Roll Street Work, Disbursed by W. C. Siegel, Clerk	538 79
27	14705	Murphy Bros., Map Case	1 25
	14706	Jarecki Mfg. Co., Brass Bolts	1 92
	14707	The Bristol Co., Charts	2 00
	14708	O. H. Nick, Soil Pipe	2 65
	14709	Hollands Mfg. Co., Tools	2 73
	14710	P. Harlan, Table	3 00
	14711	D. Matthews, Gloves	3 00
	14712	Boyd & Schafer, Cement	3 00
	14713	Electric Equipment Co., Electric Light Repairs	3 01
	14714	Mehl & Sapper, Tools	4 77

December—Continued.

TO PAY VOUCHER.

Date	No.	Of For	Amount.
27	14715	Keystone Brass Co., Brass and Labor	$ 4 89
	14716	The Constable Bros. Co., Lumber	6 33
	14717	Wm. F. Nick & Son, Paints	6 40
	14718	Mrs. Orilla Block, Washing Towels	6 50
	14719	Erie Window Glass Co., Glass, Paint, etc.	6 50
	14720	Gustave Papesch, Sheet Iron, Twine, etc.	7 84
	14721	O. C. Thayer & Son, Cement	8 20
	14722	Chas. B. Hall, Agt., Rent of Office Acct. Intake No. 2 Ext.	10 00
	14723	H. Beckman & Son, Brooms, Soap and Varnish	10 00
	14724	Dr. J. C. Elviage, Horse Medicine	11 75
	14725	Union Oil Works, Oil	12 13
	14726	Walter Scott & Co., Insurance	12 65
	14727	T. M. Hemphill, Insurance	12 65
	14728	Downing & Flickinger, Insurance	12 65
	14729	L. J. Van Anden & Co., Insurance	12 65
	14730	Palace Hardware House, Hardware	15 38
	14731	South Erie Iron Works, Tools	15 60
	14732	Kirschner Bros., Meter Boxes	15 64
	14733	Mayer Bros., Repairing Cut in Pavement	17 36
	14734	E. J. Riblet, Shop Rent	20 00
	14735	H. C. Dunn, Brick	21 00
	14736	Excelsior Boiler Comp. Co., Boiler Compound	27 44
	14737	J. D. Johnson & Co., Lumber	26 56
	14738	Erie Oil Co., Oil	32 48
	14739	Hays Mfg. Co., Fittings, etc.	36 11
	14740	Henry Johnson Co., Packing	41 25
	14741	Walker Foundry Co., Castings	63 14
	14742	Erie City Iron Works, Boiler Repairs	86 40

December—Continued.

TO PAY VOUCHER.

Date	No.	Of For	Amount.
27	14743	R. D. Wood & Co., Stop Valves	$ 141 00
	14744	Hersey Mfg. Co., Meters	350 00
	14745	Union Iron Works, Breaching for New Chimney and Putting Up temporary Stacks	445 00
	14746	Pittsburg & Erie Coal Co., Coal	1,081 24
	14747	Erie Engine Works, Engine Repairs	5 95
30	14748	John Kolb, Assistant Secretary, Sundries	23 89
	14749	Shelton & Tompkins, On Contract for New Piers	300 00
	14750	Pay Roll Street Work, Disbursed by R. W. Thomas, Clerk	363 88
		Total	$28,051 71

RECAPITULATION, 1905.

Number Warrants Issued.	MONTHS.	AMOUNTS.
24	January	$ 1,550 93
52	February	5,807 03
63	March	5,525 19
69	April	12,977 09
71	May	28,715 26
65	June	45,327 11
72	July	21,960 12
79	August	11,574 01
79	September	12,883 86
75	October	30,151 73
63	November	11,851 43
114	December	28,051 71
826	Total	$ 216,375 47

DISBURSEMENTS.

DEPARTMENTS.	ACCOUNT.		For Year 1905.	From Beginning of Works to Dec. 31, 1905.
Construction	Advertising, Books, Printing and Stationery	a	$ 28 72	$ 739 48
	Boilers No. 1 to 8	g		18,604 57
	Buildings and Grounds		787 29	143,041 82
	Civil Engineering			8,554 80
	Connections		7,149 02	156,520 94
	Drinking Fountains	d	100 84	2,825 72
	Electric Light Plant	a	14 97	5,643 44
	Engines and Boilers to Dec. 31, 1891			96,715 79
	Engine No. 4	b		48,441 43
	Engine No. 5	k		33,568 49
	Engine Room Furniture and Fixtures		109 64	2,065 37
	Expense	a	16 98	472 85
	Fire Hydrants		858 47	37,187 75
	Fuel	a	40 09	480 25
	High Service System	h		49,530 12
	Horse, Wagon and Cartage		305 58	7,213 47
	Intake Pipe No. 1			49,474 39
	Intake Pipe No. 2	b		140,971 63
	Intake Pipe No. 2 Extension	l	102,305 23	153,594 24
	Interest and Discount			99,420 95
	Light, Oil, Lamps, Wicks, Etc.	a	48 40	544 84
	Lowering Mains		288 84	8,286 25
	Mains		17,252 49	802,397 27
	Meters		684 59	28,543 96
	Meter Boxes	m	457 33	1,316 88
	Office Furniture and Fixtures	a	25 85	2,833 07
	Park Fountains			3,244 68
	Perforated Radial Brick Chimney		634 43	634 43

	Railroad Switch and Scales			2,918 92
	Reservoir		38 57	123,189 40
	Settling Basin No. 1	*n*	448 81	448 81
	Settling Basin No. 2	*n*	187 46	187 46
	Shop Rent	*a*	122 16	1,769 74
	Steel Plate Chimney No. 1	*g*		4,177 53
	Stop Valves		1,511 96	50,977 22
	Tools		1,188 10	14,833 71
	Tools (Coal Elevator and Conveyer)	*j*		1,922 09
	Water Lots	*g*		15,987 29
Maintenance	Advertising, Books, Printing and Stationery	*e*	28 62	550 85
	Boilers to March 5, 1898	*a*		24,501 08
	Boilers 1 to 8		913 23	12,859 83
	Buildings and Grounds	*a*	1,106 24	45,693 99
	Connections		5,993 48	36,883 71
	Drinking Fountains	*d*	54 41	684 08
	Electric Light Plant	*b*	178 13	3,555 64
	Engines to Dec. 31, 1892			13,402 04
	Engine No. 1	*c*		174 59
	Engine No. 2	*c*		489 57
	Engine No. 3	*c*	293 10	6,480 95
	Engine No. 4	*d*	532 06	7,722 19
	Engine No. 5	*i*	236 17	2,709 44
	Engine Room Furniture and Fixtures	*a*	61 39	746 30
	Expense	*a*	16 47	1,168 48
	Fire Hydrants	*a*	493 16	5,560 65
	Fuel	*a*	40 09	414 08
	High Service System	*i*		105 45
	Horse, Wagon and Cartage		304 51	7,462 83
	Intake Pipe No. 1	*a*		165 26

a Accounts opened in 1891 *b* Accounts opened in 1892 *c* Accounts opened in 1893 *d* Accounts opened in 1894
e Accounts opened in 1895 *g* Accounts opened in 1897 *h* Accounts opened in 1898 *i* Accounts opened in 1899
j Accounts opened in 1900 *k* Accounts opened in 1901 *l* Accounts opened in 1902 *m* Accounts opened in 1903
n Accounts opened in 1905

DISBURSEMENTS—Continued.

DEPARTMENTS.	ACCOUNT.		For Year 1905.	From Beginning of Works to Dec. 31, 1905.
	Intake Pipe No. 2	*j*	$ 67	$ 39 18
	Light, Oil, Lamp Wicks, Etc.	*a*	93 24	457 29
	Mains		2,785 38	37,907 20
	Meters		428 10	8,429 21
	Meter Boxes	*m*	58 70	248 97
	Office Furniture and Fixtures	*a*	73 02	1,259 96
	Railroad Switch and Scales	*a*	206 38	1,426 80
	Reservoir		2,569 49	39,973 65
	Shop Rent	*a*	122 16	1,769 40
	Standpipe	*c*	8 63	6,249 14
	Steel Plate Chimney No. 1	*h*	1,699 37	2,173 31
	Stop Valves		242 48	9,420 84
	Tools		1,848 52	17,523 51
	Tools (Coal Elevator and Conveyor)	*k*	14 73	208 63
	Waste and Packing	*b*	10 99	455 02
Operating	Advertising, Books, Printing and Stationery	*a*	197 38	2,344 46
	Buildings and Grounds	*b*	2,674 02	20,494 72
	Boiler Inspection	*m*	48 86	148 01
	Drinking Fountains	*g*	123 62	1,053 78
	Electric Light	*b*	5 94	494 75
	Engineers and Firemen		10,491 09	201,948 33
	Expense	*a*	172 16	4,186 20
	Fire Hydrants	*b*	537 93	4,413 23
	Flushing Sewers	*g*	3 97	55 37
	Fuel		10,062 12	240,790 67
	Inspectors	*c*	2,489 35	32,097 48
	Insurance		59 14	1,896 41
	Light, Oil, Lamps, Wicks, Etc.	*a*	44 16	880 53

	Machinists	j	860 58	9,161 13
	Meters	b	452 07	6,448 32
	Oil and Tallow		610 59	25,567 37
	Reservoir	b	529 87	6,791 33
	Stop Valves	e	121 73	972 43
	Taxes, U. S., State, County and School		305 14	4,518 95
	Telephone and Telegraph	a	270 13	2,969 39
	Turning Off and On Water	g	400 01	2,512 42
	Waste and Packing		1,586 58	14,501 66
	Water Rents Returned		13 77	1,234 23
Accounting	Advertising, Books, Printing and Stationery		1,015 37	15,298 28
	Expense		22 47	15,031 67
	Postage		329 89	9,269 39
	Salaries		7,775 82	243,958 63
Legal	Court Costs		14 13	504 55
	Counsel Fees		50 00	4,830 49
	Damages	j	25 84	440 22
	Expense		63 00	256 02
Sundries	City of Erie, Board of Commissioners, Sinking Fund		20,000 00	190,500 00
	City of Erie		.....	136 74
			$216,375 47	$3,483,860 73

a Accounts opened in 1891 *b* Accounts opened in 1892 *c* Accounts opened in 1893 *d* Accounts opened in 1894
e Accounts opened in 1895 *g* Accounts opened in 1897 *h* Accounts opened in 1898 *i* Accounts opened in 1899
j Accounts opened in 1900 *k* Accounts opened in 1901 *l* Accounts opened in 1902 *m* Accounts opened in 1903
n Accounts opened in 1905

RECAPITULATION.

DEPARTMENT.	FOR THE YEAR 1905.		From Beginning of Works to Dec. 31, 1905.
	Pro Rata.	Total.	
Construction	.622093+	$134,605 82	$2,127,007 93
Maintenance	.094340+	20,412 92	297,670 79
Operating	.148169+	32,060 21	578,956 02
Accounting	.042257+	9,143 55	283,557 97
Sundries	.092431+	20,000 00	190,636 74
Legal	.000706+	152 97	6,031 28
Totals	.999996+	$216,375 47	$3,483,860 73

SWIMMING POOL AT PUMPING STATION.

BALANCE SHEET.

1905 — ASSESSED ACCOUNTS. — 1905

Ward.	Bal. from Dec. 31, '04.	Assessments.	Additions.	Penalties.	Bal. to Jan. 1, '06	Totals.	Bal. from Dec. 31. '04.	Deductions.	Cash.	Bal. to Jan. 1, '06
1	$ 38 26	$ 17,572 45	$ 542 40	$ 89 77	$ 40 06	$ 18,282 94	$ 22 65	$ 2,047 55	$ 16,163 76	$ 48 98
2	39 72	25,247 64	837 18	106 63	69 43	26,300 60	51 49	962 57	25,214 41	72 13
3	54 13	29,577 63	1,070 39	113 36	49 13	30,864 64	66 42	1,365 14	29,339 19	93 89
4	37 33	23,261 18	735 96	100 90	34 26	24,169 63	30 29	1,931 98	22,158 67	48 69
5	38 35	15,043 09	661 26	67 63	18 83	15,829 16	31 42	817 41	14,929 68	50 65
6	36 91	14,643 60	554 05	66 71	23 26	15,324 53	27 20	619 05	14,654 06	24 22
7	6 98	2,096 94	167 46	7 85	.....	2,279 23	26	395 88	1,851 97	31 12
Total ...	$ 251 68	$ 127,442 53	$ 4,568 70	$ 552 85	$ 234 97	$ 133,050 73	$ 229 73	$ 8,139 58	$ 124,311 74	$ 369 68

METER ACCOUNTS.

1	$ 864 88	$ 3,678 10	$ 33 22	$ 6 74	$	$ 4,582 94	$	$ 9 11	$ 3,652 84	$ 920 99
2	3,408 07	17,070 04	45 81	4 00	.....	20,527 92	.....	4 44	16,338 60	4,184 88
3	1,845 56	8,439 29	21 04	11 39	49	10,317 77	.....	8 16	8,105 89	2,203 72
4	383 64	2,041 09	.....	3 88	.....	2,428 61	07	2 23	1,915 44	510 87
5	626 28	2,553 92	51 32	11 06	.....	3,242 58	.....	.....	2,498 47	744 11
6	239 61	1,515 02	.....	5 29	.....	1,759 92	.....	.....	1,363 95	395 97
7	853 96	4,476 09	.....	25 43	.....	5,355 48	.....	.....	4,092 28	1,263 20
Total ...	$ 8,222 00	$ 39,773 55	$ 151 39	67 79	$ 49	$ 48,215 22	$ 07	$ 23 94	$ 37,967 47	$ 10,223 74

SPECIAL PERMITS.

1	.....	$ 15 00	.....	.....	.....	$ 15 00	.....	.....	$ 15 00	.....
2	.....	9 50	.....	.....	.....	9 50	.....	.....	9 50	.....
3	.....	1 50	.....	.....	.....	1 50	.....	.....	1 50	.....
4	.....	13 00	.....	.....	.....	13 00	.....	.....	13 00	.....
5	.....	1 33	.....	.....	.....	1 33	.....	.....	1 33	.....
6	.....	11 00	.....	.....	.....	11 00	.....	.....	11 00	.....
7	.....	23 25	.....	.....	.....	23 25	.....	.....	23 25	.....
Total ...	.....	$ 74 58	.....	.....	.....	$ 74 58	.....	.....	$ 74 58	.....

BUILDING PERMITS.

1			$	126 05							$	126 05					$	126 05		
2				345 29								345 29						345 29		
3				398 00								398 00						398 00		
4				107 58								107 58						107 58		
5				105 75								105 75						105 75		
6				160 26								160 26						160 26		
7				15 90								15 90						15 90		
Total			$	1,258 83							$	1,258 83					$	1,258 83		
Total Water	$	8,473 68	$	168,549 49	$	4,720 09	$	620 64	$	235 46	$	182,599 36	$	229 80	$	8,163 52	$	163,612 62	$	10,593 42

PLUMBING ACCOUNTS.

1	$		$	68 74	$						$	68 74			$	27 31	$	41 43	$	
2				423 51		54 70						478 21						442 49		35 72
3		129 68		385 72								515 40						464 11		51 29
4		54 70		695 85								750 55				318 90		375 21		56 44
5				25 67								25 67						1 91		23 76
6				26 64								26 64						26 64		
7				104 71								104 71						51 74		52 97
Total	$	184 38	$	1,730 84	$	54 70					$	1,969 92			$	346 21	$	1,403 53	$	220 18
Grand Total	$	8,658 06	$	170,280 33	$	4,774 79	$	620 64	$	235 46	$	184,569 28	$	229 80	$	8,509 73	$	165,016 15	$	10,813 60

CITY OF ERIE, PENNSYLVANIA, IN ACCOUNT WITH COMMISSIONERS OF WATER WORKS, IN THE CITY OF ERIE.

Dr.			Cr.		
1905.			1904.		
Dec. 31.	Paid Board of Commissioners, of The Sinking Fund, of the City of Erie	$ 20,000 00	Dec. 31.	Balance due the City	$ 502,533 75
	Water for City Hall	274 30	1905.		
	Engine Houses	270 55	Dec. 31.	Interest on Quarterly Balances	18,704 88
	Fire Hydrants (750 at $55.00 per year)	41,250 00		Rent of Office for one year	1,200 00
	Cart Sprinkling Hydrants	423 75			
	Fountains—Park	1,251 05			
	Fountains—Lakeside Park	150 00			
	Fountains—Drinking (10 at $15.00 and 8 at $18.75) two of the latter were set during July and August	278 46			
	Flushing Sewers	172 50			
	Municipal Hospital	55 50			
	Parks—Central, East	50 00			
	Parks—Central, West	50 00			
	Parks—Lakeside, East	57 10			
	Parks—Lakeside, West	72 00			
	Settling filling in sewer trench	85 60			
	Sprinkling State Street	140 80			
	Sundries—Flushing State Street Pavement	5 00			
	Interest on Balances in Second National Bank and Security Trust Co.'s Bank	3,352 12			
		$ 67,938 13			
	Balance due the City of Erie, Penn'a, December 31st, 1905	454,500 50			
		$ 522,438 63			$ 522,438 63

STATEMENT OF RESOURCES AND LIABILITIES, DECEMBER 31, 1905.

RESOURCES.		LIABILITIES.	
PLANT NORTH OF FRONT STREET.			
Buildings and Grounds	$ 162,753 30	City of Erie	$ 454,500 50
Boilers from January 1st 1896	18,881 54	Credit on Assessed and Meter Accounts	235 46
Engines and Boilers to December 31st, 1891	107,309 35	Balance	1,734,177 21
Engine No. 4 from January 1st, 1892	49,147 09		
Engine No 5 from January 1st, 1898	34,031 72		
Electric Light Plant	5,741 25		
Engine Room Furniture and Fixtures	2,223 18		
Intake Pipe No. 1	55,568 44		
Intake Pipe No. 2 from January 1st, 1892	143,826 35		
Intake Pipe No. 2 Extension from January 1st, 1902	155,176 79		
Perforated Radial Brick Chimney from Nov. 1st. 1905	555 42		
Rail Road Switch and Scales	3,262 09		
Steel Plate Chimney No. 1	4,245 44		
Tools Coal Elevator and Conveyor	3,992 10		
Tools Tools—Including Machine Shop, Meter Prover, etc	5,242 36		
Water Lots from January 1st, 1896	16,151 00		
PLANT SOUTH OF FRONT STREET.			
Connections	163,309 22		
Drinking Fountains	2,749 94		
Fire Hydrants	38,510 11		
High Service System from January 1st, 1898	50,156 61		
Mains—Including Lowering Mains	771,414 97		
Mains—30-inch	83,289 35		
Meters—Including Meter Boxes	30,609 09		
Office Furniture and Fixtures	2,878 73		
Reservoir	137,668 08		
Stop Valves	53,364 88		
PERSONAL.			
Assessed Accounts	369 68		
Meter	10,223 74		
Plumbing	220 18		
CASH—In hands of Treasurer, City of Erie	76,041 17		
	$2,188,913 17		$2,188,913 17

ASSESSMENTS FOR 1906.

	WARDS.														TOTALS.	
	First		Second.		Third.		Fourth.		Fifth.		Sixth.		Seventh.			
	No.	Amount	No.	Amount	No.	Amount	No.	Amount	No	Amount	No.	Amount	No.	Amount	No.	Amount.
Air Pumps	15	$ 51 00	41	$ 122 00	29	$ 87 00	17	$ 54 00	13	$ 42 00	10	$ 33 00	1	$ 3 75	126	$ 392 75
Aquariums	....	.....	1	3 00	1	10 00	.....	.....	...	.....	....	.....	.....	.....	2	13 00
Automobiles	20	40 00	16	32 00	38	76 00	32	64 00	6	12 00	7	14 00	2	5 00	121	243 00
Bakeries	1	5 00	6	31 24	6	42 36	3	15 00	4	20 00	8	41 24	2	12 50	30	167 34
Banks	3	25 00	1	10 00	1	10 00	2	15 00	...	.....	....	.....	....	.....	7	60 00
Barber Chairs	24	66 00	45	138 00	53	148 00	38	108 00	17	50 00	16	46 00	....	.....	193	556 00
Bath Tubs	525	1548 66	613	1813 50	1201	3560 50	874	2460 00	437	1308 67	392	1160 00	39	138 13	4081	11989 46
Billiard Tables	2	2 00	3	3 00	37	37 00	17	17 00	2	2 00	....	.....	....	.....	61	61 00
Blacksmith Fires	3	12 50	13	50 00	11	45 00	6	20 00	5	25 00	1	5 00	....	.....	39	157 50
Boat Houses	3	30 00	.....	.....	.....	.....	1	10 00	...	.....	....	.....	....	.....	4	40 00
Bonds	4	5 50	4	8 93	2	4 07	1	2 00	16	65 18	10	47 25	6	376 36	43	509 29
Bottling Works	...	.....	3	30 00	.....	.....	.....	.....	...	.....	....	.....	....	.....	3	30 00
Bowling Alleys	1	5 00	1	5 00	2	10 00	1	5 00	1	5 00	1	5 00	....	.....	7	35 00
Churches & S'day Sch's	5	7 01	8	13 37	19	31 08	8	16 71	4	6 68	7	11 72	1	2 09	52	88 66
City Parks	4	177 90	.....	.....	.....	.....	3	192 00	...	.....	....	.....	....	.....	7	369 90
Club Rooms	10	33 66	11	49 00	9	35 00	6	24 00	...	.....	6	24 00	...	.....	42	165 66
Cows	8	6 00	2	1 50	4	3 00	8	6 00	24	17 50	6	4 50	5	4 69	57	43 19
Draw Cocks	2047	.....	3435	.....	3337	.....	2501	.....	2045	.....	2005	.....	196	.....	15566	.....
Eating Houses	4	23 00	18	71 35	28	112 70	12	43 34	4	16 67	7	11 68	...	.....	73	278 74
Elevators	1	120 00	3	30 00	2	100 00	2	11 00	....	.....	....	.....	....	.....	8	261 00
Engine Houses	1	5 00	1	5 00	2	15 00	1	5 00	2	10 00	3	15 00	....	.....	10	55 00
Engine, Gas, H. Power	72	49 00	62	53 75	96	88 00	12	15 00	28	26 00	49	37 50	....	.....	319	269 25
Engine, Steam, H. Power	22	27 50	126	111 52	38	37 00	60	42 29	67	76 95	2	5 00	30	53 75	345	354 01
Total Engine, H. Power	94	76 50	188	165 27	134	125 00	72	57 29	95	102 95	51	42 50	30	53 75	664	623 26

Families	1738	6936 02	2909	11609 31	2371	9452 04	1955	7804 03	1813	7235 99	1804	7194 69	159	791 67	12749	51023 75
Fish Hatchery	....	.....	.....	.....	.....	.....	1	400 00	...	.....	....	.....	....	.....	1	400 00
Fish Markets	1	10 00	1	5 00	.....	.....	1	5 00	1	5 00	1	5 00	....	.....	5	30 00
Fish Ponds	....	.....	.....	.....	.....	.....	1	30 00	....	.....	....	.....	....	.....	1	30 00
Fountains	2	775 52	1	5 00	1	4 00	3	644 53	2	16 00	..	.....	....	.....	9	1445 05
Fountains, Drinking	2	30 00	2	30 00	5	47 00	2	30 00	2	30 00	1	15 00	8	150 00	22	332 00
Fountain Cuspidors	....	.....	7	21 00	12	36 00	1	3 00	1	3 00	....	.....	...	.....	21	63 00
Freight Houses	....	.....	1	15 00	1	5 00	....	.....	....	.....	...	.....	....	.....	2	20 00
Green Houses	....	.....	.....	.....	1	32	4	10 35	5	7 14	4	2 79	9	26 14	23	46 74
Hand Basins	568	476 72	728	643 34	1482	1271 86	1041	875 18	323	294 19	337	301 18	44	45 21	4523	3907 68
Heating, Boilers, H. P.	272	61 34	733	124 25	854	183 09	614	143 92	295	64 60	271	40 43	116	36 24	3155	653 87
Horses	127	167 00	265	343 00	378	524 00	284	344 00	280	398 00	238	330 66	35	62 50	1607	2169 18
Hydrants	121	.....	232	.....	158	.....	226	.....	104	.....	143	.....	11	.....	995	.....
Laundries	....	....	3	15 00	3	15 00	1	5 00	....	.....	....	.....	....	.....	7	35 00
Libraries	1	5 00	.....	.....	.....	.....	...	.....	....	.....	...	.....	....	.....	1	5 00
Lodging Rooms	194	180 67	252	251 50	289	288 84	190	173 00	34	28 67	70	41 50	12	15 00	1041	979 18
Meat Markets	11	45 00	15	89 00	17	93 00	13	66 00	13	66 00	10	57 00	1	7 50	80	423 50
Milk Depots	1	5 00	.....	.....	.....	.....	2	10 00	..	.....	1	5 00	....	.....	4	20 00
Offices	95	275 21	150	451 50	116	393 00	70	250 00	5	15 00	4	14 00	....	.....	440	1398 71
Opera Houses	....	.....	.....	.....	1	10 00	1	10 00	....	.....	....	.....	....	.....	2	20 00
Photograph Rooms	....	.....	4	20 00	4	20 00	2	10 00	1	5 00	1	5 00	....	.....	12	60 00
Printing Offices	3	25 00	3	15 00	4	30 00	.....	.....	....	.....	....	.....	....	.....	10	70 00
Public Halls	6	30 00	16	80 00	13	70 00	5	25 00	5	25 00	3	11 67	....	.....	48	241 67
Saloons	13	65 00	40	200 00	26	130 00	19	95 00	11	55 00	9	45 00	1	6 25	119	596 25
School Scholars	1156	100 61	2149	123 03	2527	230 97	787	75 04	1599	132 83	1204	88 54	....	.....	9422	751 02
Slaughter Houses	...	.....	1	8 00	.....	.....	....	.....	4	23 00	1	8 00	...	.....	6	39 00
Steamer U. S. Wolverine	....	.....	.....	.....	.....	.....	1	30 00	...	.....	....	.....	....	.....	1	30 00
Stores	70	266 00	179	666 00	203	867 00	88	337 00	47	149 00	46	159 00	3	11 25	636	2455 25
SPRINKLERS. Adjoining Lot	25	70 80	23	67 70	31	97 10	35	104 00	18	51 72	3	11 54	2	.....	137	402 86
Curb	74	200 00	45	126 90	106	282 23	174	404 60	17	48 40	23	51 60	1	1 25	440	1114 98
Hydrant	30	148 99	46	213 30	45	248 59	58	295 15	31	143 40	45	154 68	2	22 50	257	1226 61
In House	72	233 80	76	253 30	47	147 50	55	181 44	65	209 15	66	212 17	5	18 75	386	1256 11
Lawn	85	158 72	87	220 55	143	358 35	117	301 23	84	197 70	59	169 36	11	54 20	586	1460 11
Sill Cock	656	1552 43	790	1986 26	1265	3292 55	923	2527 54	898	2297 45	748	2040 98	84	281 90	5364	13979 11
Total Sprinklers	942	2364 74	1067	2868 01	1637	4426 32	1362	3813 96	1113	2947 82	944	2640 33	105	378 60	7170	19439 78

ASSESSMENTS FOR 1906—Continued.

	WARDS.														TOTALS.	
	First.		Second.		Third.		Fourth.		Fifth.		Sixth.		Seventh.			
	No	Amount	No.	Amount	No.	Amount	No.	Amount	No.	Amount	No.	Amount	No.	Amount	No.	Amount.
Urinals	45	153 63	81	292 49	79	305 50	46	192 84	22	102 00	30	71 83	1	3 75	304	1122 04
Wash Tubs	109	151 33	42	60 33	325	462 33	331	452 34	14	20 00	53	64 00	5	8 75	880	1219 08
Wash Tubs, Revolving					3	15 00									3	15 00
Total Wash Tubs	109	151 33	42	60 33	329	477 33	331	452 34	14	20 00	53	64 00	5	8 75	883	1234 08
Water Closets, Closing	1129	3342 09	1732	5182 84	2499	7247 66	1668	4552 00	855	2514 50	886	2585 50	57	200 03	8826	25624 62
Water Cl's'ts, non-clos'g	6	42 00	23	44 00	19	57 34	5	28 50	1	6 00					54	177 84
Total Water Closets	1135	3384 09	1755	5226 84	2518	7305 00	1673	4580 50	856	2520 50	886	2585 50	57	200 03	8880	25802 46
Warehouses	1	3 00							1	3 00					2	6 00
Water Motors			2	14 00	8	53 00	3	21 00	1	7 00	3	21 00			17	116 00
Water Troughs			6	60 00	1	10 00	2	15 00	8	80 00	2	20 00			19	185 00
Work Shops	18	68 00	58	217 50	61	211 00	37	128 00	10	35 00	8	27 00	1	3 75	193	690 25
Yacht							1	3 00							1	3 00
Grand Totals for 1906	9406	17818 61	15115	26036 26	18015	30910 98	12372	23708 03	9245	15952 39	8604	15215 01	850	2342 91	73607	131984 19
Grand Totals for 1905	7047	17561 20	10891	25109 59	13679	29307 20	9565	23146 49	6552	14607 71	6250	14546 73	634	2080 18	54618	126359 10
Total Gain for 1906	2359	257 41	4224	926 67	4336	1603 78	2807	561 54	2693	1344 68	2354	668 28	216	262 73	18989	5625 09
Total Loss for 1906																

RATES FOR CITY WATER.

Approved by Select Council, August 19, 1895.—Approved by Common Council, September 16, 1895.—Approved by the Mayor, September 21, 1895.

AND AS AMENDED AND APPROVED NOVEMBER 25, 1899.

Are All Annual Except as Otherwise Indicated, and Payable Quarterly in Advance, as Follows:

First Quarter—January, February, March—January 1st.

Second Quarter—April, May, June—April 1st.

Third Quarter—July, August, September—July 1st.

Fourth Quarter—October, November, December—October 1st.

If the rents for any quarter are not paid within the *first month thereof five per cent.* may be added. If payment is not made by the 15th day of February, May, August and November of each quarter, the water may be turned off from the premises, and shall not be turned on again without the consent of the Commissioners of Water Works, until all back rents and penalties are paid, and the further sum of one ($1.00) dollar.

Acetylene Gas Machines, for each 50 light machine or less.$	2 00
Air Pump	3 00
Automobile	2 00
Bath Tub—Private (one family) first tub	3 00
Bath Tub—Private (one family) each additional tub	1 50
Bath Tub—Public, each tub	5 00
Bakery, per barrel of flour used (but no charge less than $5)	01
Barber Shop, first chair, including hand basin	4 00
Barber Shop, each additional chair, including hand basin	2 00

Billiard Tables, each	**$ 1 00**
Billiard tables, when floor is carpeted, one-half the above rate.	
Blacksmith Fire, first fire	**5 00**
Blacksmith Fire, each additional fire	**2 50**
Boarding House, (in addition to family rates) per room	**1 00**
Building Purposes, per bushel of lime; to be paid for before Work is begun	**02**
Butcher Stalls	**3 00 to 15 00**
Charitable Institutions, one-third annual rates.	
Cow	**75**
Condensing Boiler for Steam Heating, (per season of 6 months) per horse power	**25**
Eating Houses	**5 00 to 25 00**
Family	**4 00**
Fire Protection Fixtures, testing same, thirty (30) minutes or less	**3 00**
Fire Protection Fixtures, testing same, one (1) hour or less, but more than thirty (30) minutes	**5 00**
Flushing Sewers, settling earth in ditches or purposes of like nature, per hour, or fractional part of an hour, each	**5 00**
Gas Engines, five-horse power or less	**5 00**
Gas Engines, for each additional horse power	**1 00**
Gas Engines when water is used over and over again, from tank prepared for the purpose, one-half the above rates.	
Hand Basins in dwellings, hotels and schools, first basin	1 00
Hand Basins in dwellings, hotels and schools, each additional basin	50
Hand basins in offices, stores and blocks, each	1 00
Hotels (in addition to family rates) per room	1 00
Laundry, shop	5 00
Laundry, wash tub, stationary, each	2 00
Laundry, revolving washer, each	5 00
Livery Stable, per horse	2 00
Offices	3 00 to 10 00
Private Stable, one or two horses	2 00
Private Stable, each additional horse over two	1 00
Printing Offices	5 00 to 30 00
Public Halls	5 00 to 25 00
Saloon	5 00 to 25 00
School, per pupil (in addition to fixtures)	10
Slaughter Houses	5 00 to 50 00
Sleeping Rooms, each	1 00
Sprinkling Streets or Lawns with Hose, per Season:	
Corner lot, 41 feet front or less	5 00
Inside lot, 41 feet front or less	3 00
For each additional foot front to either corner or inside lot	05

Steam Engines, 10 hours per day, each Horse Power.....$	2 50
Stores	3 00 to 15 00
Urinal, private, self-closing, (one family).....	2 00
Urinal, private, not self-closing (one family).....	6 00
Urinal, public, self-closing.....	3 00
Urinal, public, not self-closing.....	10 00
Urinal, private or public, continuous flow.....	10 00 to 30 00
Wash Tub, Stationary, first tub (one family).....	2 00
Wash Tub, Stationary, each additional tub (one family)..	1 00
Water Closet, pan or tank, (one family) private.....	3 00
Water Closet, pan or tank, (one family) each additional water closet	1 50
Water Closet, pan or tank, public, each.....	5 00
Water Closet, hopper (one family) private, for each water closet	6 00
Water Closet, hopper, public, for each water closet.....	10 00
Water Motors.....	21 00
Work Shop, ordinary use	3 00 to 5 00

———

Sprinkling for any purpose will ONLY be allowed on premises where water is taken and paid for, for domestic or other inside use. The sprinkling season is from May 1st to November 1st, in each year.

There is no fractional part of a sprinkling season.

It will cost as much to sprinkle but once at any time during the sprinkling season as it will to sprinkle each day, at the prescribed hours, during the entire season.

Sprinkling must be confined to the hours between 5 and 8 A. M., 12 and 1 P. M., and 5 and 8 P. M., nor during said intervals more than one hour at a time. Persons who exceed one hour may be charged at fountain rates or held liable for violation of the rules, at the option of the Commissioners.

The inside diameter of hose used for sprinkling purposes must not be more than three-quarters of an inch, and the inside diameter of the orifice to the nozzle of the same must not be more than one-quarter of an inch. The use of leaky or defective hose is prohibited.

No person will be allowed to sprinkle adjoining or opposite premises, nor to use the water from any hose attachment, or through any hose for any purpose not authorized by the Commissioners. All sprinkling devices not held in the hand when used shall be classed as fountains, or fountain jets, and assessed accordingly, *but not less than double sprinkling rates.*

Fountains, fountain jets, etc., will be assessed according to the inside diameter of its principal part or parts, and for a continuous flow during the entire sprinkling season.

Hose must not be used for cleaning streets or street gutters, for washing away collections of leaves, heaps of dirt or offal, or flooding streets.

Sprinkling fixtures, to which hose can be attached, no matter where located on any premises, makes said premises assessable for sprinkling.

All plumbing from the curb line inward must be done by a licensed plumber.

Water fixtures will be assessed for each and every purpose available, and for each family or establishment within the enclosure or separated only by a door, gateway or other means of easy communication.

No abatement of charges shall be allowed for vacancy of premises *except from the date that notice has been given at the office of the Commissioners of Water Works that they are unoccupied.*

The Commissioners may limit or stop the supply of water in cases of emergency, and shut it off for repairs or extensions, they being the judges of the time and necessity. Neither the Commissioners nor the City of Erie shall be liable in damages for any insufficient supply of City Water.

For each and every violation of the rules and regulations of the Water Works, the offending party will be subject to a fine of not less than five nor more than fifty dollars.

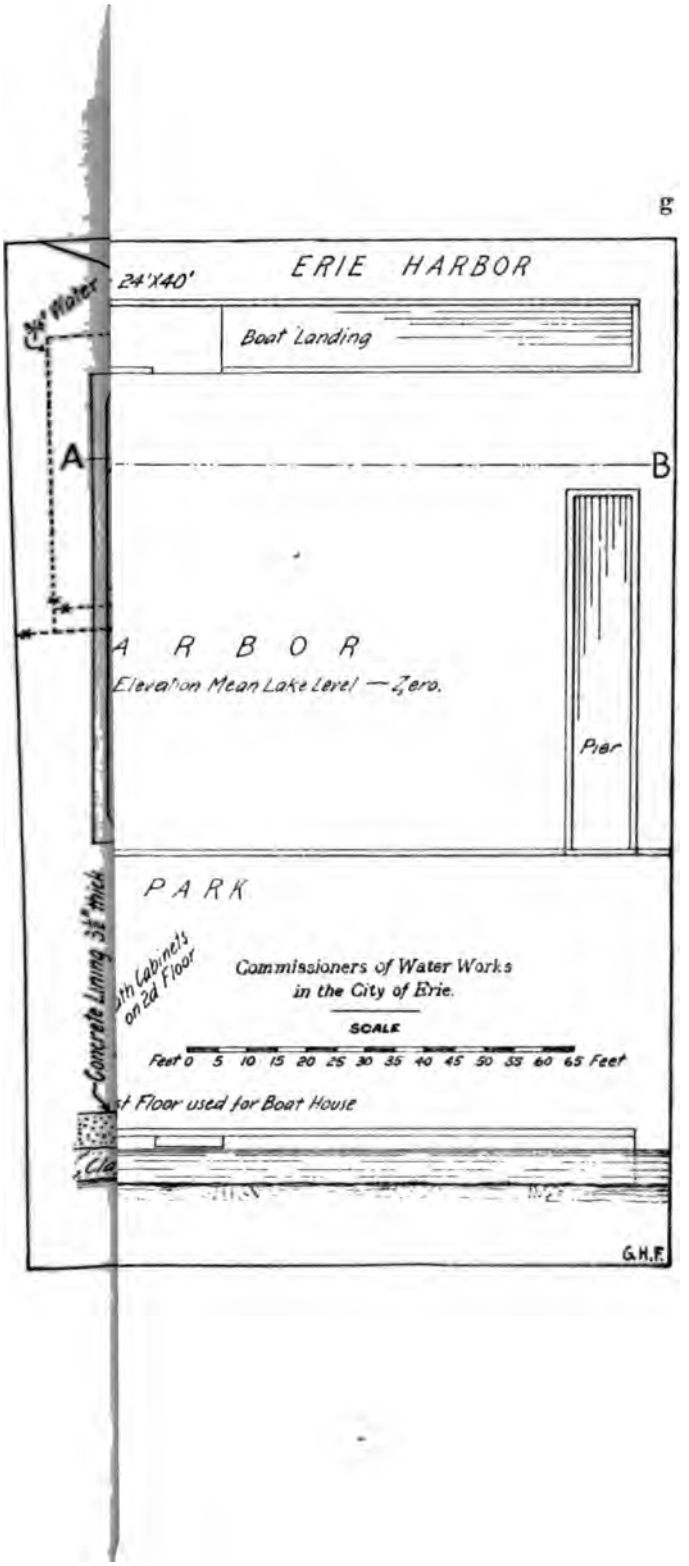
METER RATES.

Twenty (20) cents for each One Thousand (1,000) gallons for the first Twenty-five Thousand (25,000) gallons, and Four (4) cents for each One Thousand (1,000) gallons consumed thereafter during each current quarter.

PROVIDED, The minimum receipts from each meter (for each quarter) shall be as follows:

¾ inch or less	$ 3 75	1 inch	$ 4 50
1½ inch	6 25	2 inch	10 00
3 inch	18 75	4 inch	38 75
6 inch	$100 00		

TERMS: All water sold by meter Measurement must be paid for on or before THE TENTH DAY OF THE FIRST MONTH OF EACH QUARTER. All Meter accounts remaining unpaid at the close of business on the 10th day of said month shall have Five Per Centum added thereto. On the 15th day of said month, WATER MAY BE TURNED OFF from the property whose Meter Account is unpaid, and will not be again turned on until all arrearages and penalties are paid, and the further sum of One ($1.00) Dollar.



SWIMMING POOL AT PUMPING STATION—Ladies' Day.

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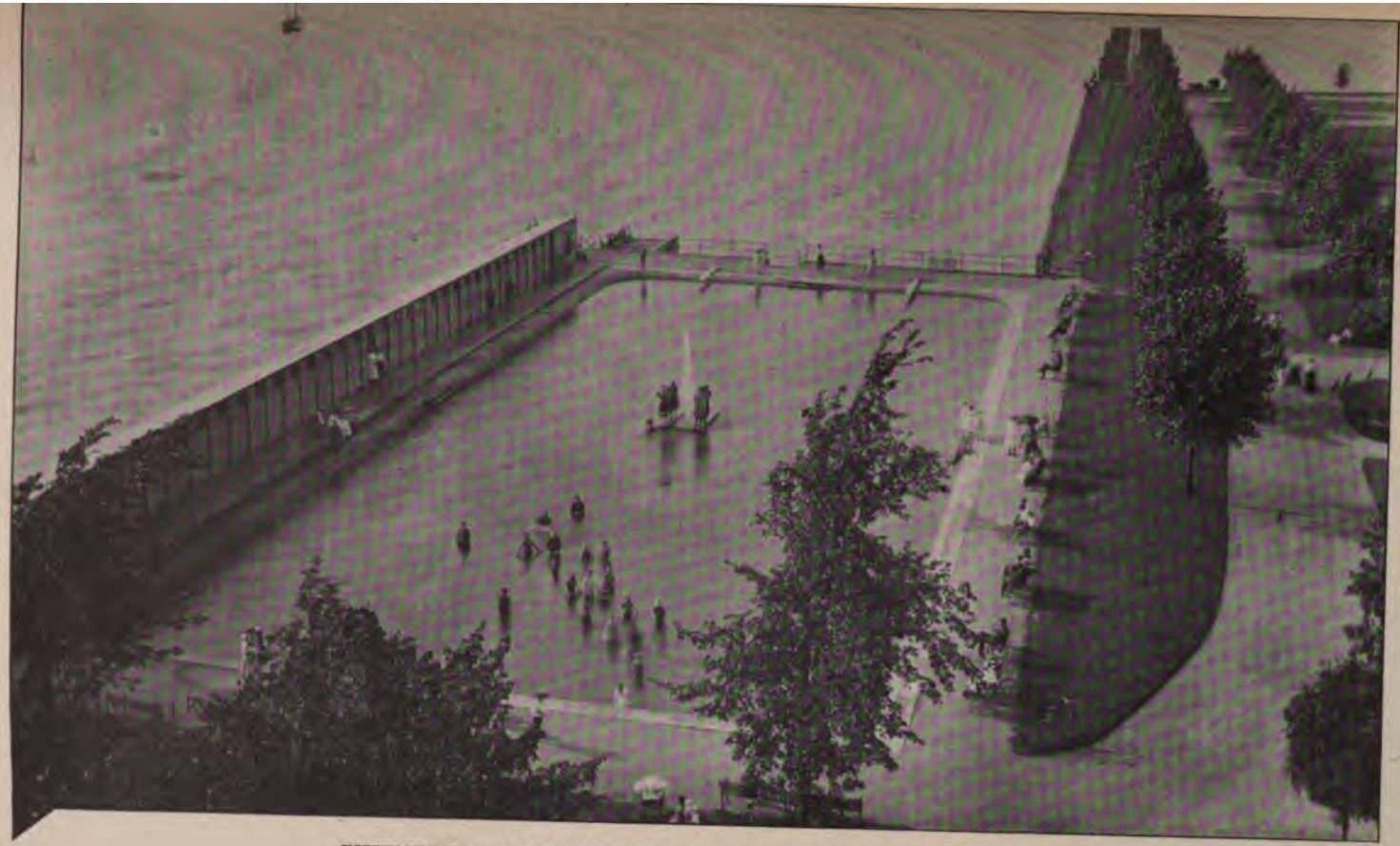

SWIMMING POOL AT PUMPING STATION—Ladies' Day.

STATEMENT OF WORK DONE BY INSPECTOR No. 1, IN 1905.

MONTHS.	TURNED OFF ACCOUNT.			TURNED ON ACCOUNT		NEW HOUSES.		FIXTURES.						TOTALS.
	Unpaid	Vacancies	Leaks and Waste	Paid	Occupied	Building Purposes	Completed	Complaints	Frozen	Installed	Removed	Leaks and Waste	Vacancies	
January	.....	.....	.....	.....	12	5	18	11	81	75	44	8	.....	254
February	2	.....	.....	.....	40	6	15	8	270	140	40	20	429	970
March	.....	.....	.....	.....	30	25	36	9	48	170	42	8	.....	368
April	.....	.....	.....	.....	35	35	68	5	.....	250	61	.....	.....	454
May	.....	.....	....	.....	46	28	46	2	.....	300	41	3	363	829
June	.....	.....	.....	.....	30	20	32	2	.....	200	25	7	.....	316
July	.....	.....	.....	.....	26	27	43	3	.....	195	20	5	.....	319
August	.....	.....	.....	.....	24	20	55	4	.....	201	20	3	298	625
September	.....	.....	.....	.....	20	10	27	1	.....	104	18	3	.....	183
October	.....	.....	.....	.....	40	25	46	2	.....	160	26	2	.....	301
November	.....	.....	.....	.....	25	25	32		.....	130	35	4	375	626
December	.....	.....	.....	....	20	10	28	1	.....	136	45	5	.....	245
Totals	2	.....	.....	.....	348	236	446	48	399	2061	417	68	1465	5490

STATEMENT OF WORK DONE BY INSPECTOR No. 3, IN 1905.

MONTHS	TURNED OFF ACCOUNT			TURNED ON ACCOUNT		NEW HOUSES		FIXTURES						TOTALS.
	Unpaid	Vacancies	Leaks and Waste	Paid	Occupied	Building Purposes	Completed	Complaints	Frozen	Installed	Removed	Leaks and Waste	Vacancies	
January	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
February	.....	.....	.....	.....	.....	.....	.....	.....	3	13	.....	.....	.....	16
March	.....	.....	.....	.....	.....	.....	.....	.....	.....	4	.....	.....	.....	4
April	.....	.....	.....	.....	.....	.....	.....	.....	.....	3	.....	.....	.....	3
May	.....	.....	.....	.....	.....	.....	.....	.....	.....	21	.....	.....	.....	21
June	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	1
July	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
August	.....	.....	.....	.....	.....	2	.....	.....	.....	19	.....	.....	.....	21
September	.....	.....	.....	.....	11	.....	9	.....	.....	36	11	1	.....	68
October	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
November	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
December	.....	.....	.....	.....	.....	.....	.....	.....	.....	2	.....	.....	.....	2
Total	.....	.....	.....	.....	11	2	9	.....	3	99	11	1	.....	136

1905 Statement of Work Done at Annual Inspection by Inspector No. 2. 1905

WARD.	Air Pumps	Engines		Fixtures			Hand Basins	Heating Boilers	Premises	Sprinklers				Tubs		Urinals	Water Closets		TOTAL
		Gas	Steam	Draw Cocks	Goose Necks	Hydrants				Curb	Hydrant	Lawn	Sill Cocks	Bath	Wash		Non-Closing or Hopper	Pan or Tank	
First	15	4	3	2047	12	121	568	41	1688	74	30	85	656	525	109	45	6	1129	7158
Second	41	12	14	3435	4	232	728	53	2502	45	46	87	790	613	42	81	23	1732	10480
Fifth	13	5	3	2045	2	104	323	48	1650	17	31	84	898	437	14	22	1	855	6552
Seventh	...	....	1	129	....	....	36	8	99	1	1	7	65	33	5	..	..	49	434
Total	69	21	21	7656	18	457	1655	150	5939	137	108	263	2409	1608	170	148	30	3765	24624

1905 Statement of Work Done at Annual Inspection By Inspector No. 3. 1905

Third	29	13	4	3377	2	158	1482	106	2376	106	45	143	1265	1201	329	79	19	2499	13233
Fourth	17	3	5	2501	....	226	1041	66	1885	174	58	117	923	874	331	46	5	1668	9940
Sixth	10	4	1	2005	2	143	337	23	1645	23	45	59	748	392	53	30	....	886	6406
Seventh	1	....	..	67	...	7	8	3	79	....	1	4	19	6	....	1	...	8	204
Total	57	20	10	7950	4	534	2868	198	5985	303	149	323	2955	2473	713	156	24	5061	29783

Amount of Coal Consumed in Pumping, Gallons of Water Pumped, Average Height Pumped, Cost per Million Gallons, Etc., from the First Year Works Were Operated to December 31, 1905.

YEAR.	Tons Coal Consumed	Cost Coal from Jan.1 to Dec.31	Grades of Bituminous Coal.	Gallons of Water Pumped.	Increase or Decrease.		Number of places supplied	No. of Fire Hydrants.	Av'ge height of Water in Reservoir above surface of Bay.	Cost Coal per million galls. Pumped.	Gallons Pumped per pound of Coal.
1868....	591.1	$ 309.61	Lump.	.....	.....		.....	.....	.....	.....	.....
1869....	544.4	4,818.48	"	.....	.....		.....	.....	.....	.....	.....
1870....	1,064.5	5,159.10	"	246,648,960	.....		1,218	97	232.0	.....	.....
1871....	1,422.7	7,117.00	"	279,368,495	32,719,535	i	1,727	99	232.0	$18.76	98.5
1872....	1,308.5	6,528.50	"	395,076,000	115,707,505	i	2,140	103	232.0	16.52	150.9
1873....	1,672.5	8,412.65	"	384,062,415	11,013,585	d	2,475	107	232.0	21.90	114.8
1874....	1,759.0	7,709.54	"	444,817,395	60,754,980	i	2,663	107	232.0	17.38	126.4
1875....	1,836.4	8,657.61	"	671,005,475	86,188,080	i	2,700	110	232.0	16.30	145.5
1876....	1,105.1	8,925.22	"	670,726,650	139,721,175	i	2,763	112	232.0	13.30	159.3
1877....	2,456.6	8,509.33	"	660,981,810	9,744,840	d	2,854	114	232.0	12.75	135.7
1878....	2,463.3	7,945.37	"	682,392,315	21,410,505	i	2,915	115	232.0	11.64	136.4
1879....	2,628.1	7,428.92	"	807,800,400	125,408,085	i	3,011	121	232.0	9.19	153.6
1880....	3,076.1	6,978.41	"	775,805,250	31,995,150	d	3,568	126	232.0	8.99	126.0
1881....	3,430.3	6,517.58	Slack.	975,640,934	219,835,684	i	4,110	161	232.0	6.68	142.2
1882....	2,968.2	5,355.93	"	829,759,260	145,881,674	d	4,687	171	234.0	6.45	139.7
1883....	2,398.2	3,908.59	"	815,939,685	13,819,575	d	5,077	197	234.7	4.66	170.0
1884....	3,010.8	4,502.61	"	917,781,350	101,841,665	i	5,395	248	234.3	4.99	152.4
1885....	3,243.8	4,575.79	"	1,036,496,665	118,715,315	i	5,658	270	232.9	4.40	159.7
1886....	3,369.0	4,318.64	"	1,117,389,075	80,892,410	i	6,140	280	233.3	3.86	165.8
1887....	2,820.4	3,589.31	"	1,218,213,688	100,824,613	i	6,368	318	234.1	2.95	216.0
1888....	2,392.3	2,545.46	"	1,341,708,002	123,494,314	i	6,600	333	234.6	1.89	192.1
1889....	2,446.0	2,661.12	"	,475,358,220	133,650,218	i	7,086	346	235.2	1.80	301.5
1890....	2,583.6	3,052.89	"	1,659,625,551	184,267,331	i	7,728	372	236.9	1.81	322.4
1891....	3,120.7	3,941.53	"	1,807,038,580	147,413,029	i	8,255	393	237.3	2.18	291.42
1892....	3,658.0	4,807.11	"	2,047,993,505	240,954,925	i	8,998	415	237.4	2.35	279.43
1893....	4,693.5	6,218.95	"	2,333,638,610	285,645,105	i	9,687	444	236.5	2.66	248.6
1894....	2,960.0	4,423.59	"	1,816,596,518	517,042,092	d	10,680	479	236.6	2.43	306.8
1895....	3,541.5	4,377.16	"	,975,396,305	158,797,787	i	.....	489	237.2	2.21	278.62
1896....	3,056.0	3,603.28	"	2,005,757,728	30,361,423	i	10,84	514	237.6	1.796	328.17
1897....	3,338.2	4,507.52	"	2,215,416,779	209,659,042	i	1,38	523	235.9	2.034	331.75
1898....	3,119.0	3,815.68	Miscel's.	2,270,520,528	55,103,758	i	,739	543	235.6	1.68	363.98
1899....	3,819.1	4,633.06	Slack.	2,722,322,604	451,802,076	i	,932	565	235.48	1.701	356.41
1900....	5,285.9	7,754.34	"	3,124,440,64	402,118,040	i	,451	595	235.46	2.482	295.57
1901....	199.75	8,103.99	"	3,190,024,916	65,584,272	i	949	632	236.04	2.540	306.77
1902....	5 668.75	9,070.00	"	3,224,360,754	34,335,838	i	13,351	670	236.13	2.813	284.41
1903....	5,450.65	11,610.52	"	3,315,335,518	90,974,764	i	14,422	698	236.9	3.502	304.42
1904....	6,248.17	11,264.41	Nut & Sl'k.	3,690,782,61	375,447,094	i	14, 5	725	235.8	3.052	295.31
1905....	11,980.5	9,878.08	"	3,839,566,978	148,784,366	i	15, 87	750	236.29	2.572	320.48

HIGH SERVICE SYSTEM, installed in 1899, comprises all the territory south of Nineteenth street. In this district the average lift in feet for 1905 was 298.62. See Pumping Statistics. Steam is also used for auxiliary purposes, such as steam siphons, elevating coal, running machine shop, heating buildings, stand pipe, etc.

PUMPING STATISTICS FOR 1905.

MONTHS	No. 3 GASKILL, 5 000,000 Gallons. SERVICE HIGH Days Run	Gallons	LOW Days Run	Gallons	TOTAL Days Run	Gallons	No. 4 WORTHINGTON 12,000,000 Gallons SERVICE LOW Days Run	Gallons	No. 5 WORTHINGTON 8,000,000 Gallons SERVICE HIGH Days Run	Gallons	LOW Days Run	Gallons	TOTAL Days Run	Gallons
January..	19	67,782,624	...	.....	19	67,782,624	31	233,082 000	12	32,966,736	...	.....	12	32 966,736
February	28	115,121,188	...	.....	28	115,121,188	17	135,366,960	...	.....	14	95 120,784	14	95,120,784
March ...	31	108,547,894	...	.....	31	108,547,894	31	226,926,648	...	.....	...	.....	...	.....
April	30	100,085,622	...	.....	30	100,085,622	3	15,074,568	...	.....	27	170,954,784	27	170,954,784
May	21	59,687,628	...	.....	21	59,687,628	21	127,779,168	13	35,964,192	11	76 460,736	24	112,424,928
June	24	89,869,780	...	.....	24	89,869,780	21	167,475,144	6	18 183,264	8	47,691,864	14	65,875,128
July.....	9	37,970,660	..	.....	9	37,970,660	31	223,706,280	23	72,390,912	...	.....	23	72,390,912
August...	5	12,549,446	...	.....	5	12,549 446	31	222 495,744	30	97,282 416	...	.....	30	97,282,416
Sept'mber	17	59 515,638	...	.....	17	59,515,638	30	210,034 896	16	52,276,752	..	.....	16	52,276,752
October ..	18	62,902,112	...	.....	18	62,902,112	18	120 365,808	15	46,371 336	14	88,209,528	.	134,580,864
November	30	100,104,732	...	.....	30	100,104,732	0	.....	...	.....	30	200,409,000	...	200,409,000
December	31	87,818,822	...	.....	31	87,818,822	16	111,838,512	3	5,949,240	16	113,233,560	..	119,182,800
Total. .	263	901,956,146	...	.....	263	901,956,146	250	1,794,145,728	118	361,384,848	120	792,080,256	160	1,153,465 104
Daily Ave	...	3,429,491	...	.....	...	3,429,491	...	7,176,583	...	3,062,583	...	6,600,669	...	7,209,157

PUMPING STATISTICS FOR 1905—Continued.

MONTHS.	ENGINES. TOTAL SERVICE. High. Days Run	High. Gallons.	Low. Days Run	Low. Gallons.	TOTAL. Days Run	TOTAL. Gallons.	DAILY AVERAGE FOR EACH MONTH.	AVERAGE LIFT IN FEET. SERVICE. High.	Low.
January	31	100,749,360	31	233,082,000	31	333,831,360	10,768,753	278 12	237.36
February	28	115,121,188	28	230 487,744	28	345 608,932	12,343,176	278.10	236.81
March	31	108,547 894	31	226 926,648	31	335,474 542	10,821,759	277.85	236.50
April	30	100,085,622	30	186,029,352	30	286,114 974	9,537,165	275 97	235.57
May	31	95,651,820	31	204,239,904	31	299,891,724	9,673,926	277.59	234 30
June	30	108,053,044	30	215,167,008	30	323,220,052	10,774,001	277.52	233.47
July	31	110,361,572	31	223,706,280	31	334 067,852	10,776,382	276.80	235.65
August	31	109,831,862	31	222 495 744	31	332,327,606	10,720,245	277.45	235.68
September	30	111,792,390	30	210,034,896	30	321,827,286	10,727,576	277 56	235.90
October	31	109 273,448	31	208,575,336	31	317,848,784	10,253,186	277.01	236.33
November	30	100,104,732	30	200,409,000	30	300 513,732	10,017,124	277.33	236 69
December	31	93,768,062	31	225,072 072	31	318,840,134	10 285,166	277.82	236.41
Total	365	1,253,340 994	365	2,586,225,984	365	3,839 566,978	.....	.....	.....
Daily Average	...	3 433,811	...	7 085,550	...	10,519 361	.....	288 85	236.33

DESCRIPTION OF RESERVOIR, STAND PIPE, BOILER HOUSE, ENGINES, INTAKE PIPES AND SWIMMING POOL.

Reservoir.

The reservoir was constructed in 1873 and is about two miles distant from the pumping station, the bottom of which is 210 feet above the zero level of the water in the bay, and when the water is carried to a depth of 27 feet, holds 32,952,934 gallons of water.

Stand Pipe.

The stand pipe was erected in 1868. It is five feet in diameter and 259.65 feet in height. A spiral staircase surrounds it and all enclosed in brick. So far as we know, this is the tallest stand pipe in the world.

Boiler House.

The boiler house was erected in 1897 and is 74 feet wide, 102 feet long and 25 feet from floor line to bottom of cords to roof. On the north side eight horizontal tubular boilers are installed in batteries of two each. The boilers are 72 inches in diameter, 18 feet long, without domes, and contain 80 4-inch lap welded tubes, capable of carrying 150 lbs. pressure to the square inch.

On the south side of the house can be erected an equal number of the same size boilers, but until these are required the room is used for storing coal; the 5 bins now in place hold 1200 tons of coal.

Engines.

There are five pumping engines.

Nos. 1 and 2 are Cornish Bull Pumps, erected in 1868; alike in their dimensions, which are as follows: Steam cylinders, 60 inches in diameter; Pump Plunger, 20¼ inches in diameter, each 10-foot stroke, capacity being 165 gallons per stroke, pumping 2,000,000 gallons daily. These pumps are out of commission, the cost for repairs being greater than they are worth.

No. 3 is a Gaskill Horizontal Compound Pumping Engine, erected in 1886, having two H. P. Cylinders, 21 inches in diameter, two L. P. Cylinders, 42 inches in diameter, two pumps 19½ inches in diameter, all 36-inch stroke; capacity being 182 gallons per revolution, pumping 5,000,000 gallons daily.

No. 4, is a Worthington Horizontal Compound High Duty Pumping Engine, erected in 1893, having two H. P. Cylinders, 33 inches in diameter, two L. P. Cylinders, 66 inches in diameter, two pumps, 29 inches in diameter, all 49¾-inch stroke; capacity being 552 gallons per stroke; pumping 12,000,000 gallons per day, at a piston speed of 128 feet per minute, against a head of 260 feet.

No. 5, is a Worthington Horizontal Compound High Duty Pumping Engine, erected in 1899, having two H. P. Steam Cylinders, each 25 inches in diameter; two L. P. Cylinders, each 50 inches in diameter, two double acting water plungers, each 23 inches in diameter, all 36-inch stroke; capacity being 264 gallons per stroke, pumping 8,000,000 gallons per day, at a piston speed of 136 feet per minute, against a total load of 142 pounds per square inch (a head of 328 feet).

The regular employes at the pumping station are, one superintendent, one machinist, three engineers, three greasers, three firemen, two assistant firemen, one watchman and keeper of grounds and one janitor. The engineers stand a watch of eight hours each.

Intake Pipes.

There are two intakes, one constructed in 1868, of which 52 feet is brick, 14 feet in diameter, 590 feet is wood, 4¼ feet in diameter, and 333 feet is boiler iron 4 feet in diameter, making a total length of 975 feet. The top of the outer end of this intake is four feet below the zero level of the bay, and as it approaches the shore ascends until the top is only two feet above the zero level of the bay. This intake has not been used since the new one was completed, and as the part made of wood has not been submerged for some time it is undoubtedly past use.

The second intake was completed in 1896. It is made of cast iron, 60 inches internal diameter, 8,307.18 feet long, buried in the bottom of the bay, at no place is there less than three feet of earth over its top. The outer end terminates in an octagonal crib, 40 feet being its extreme width, and 8 feet high, the top being 13 feet below zero level of the bay. So far as we know, this is the longest single piece of submerged 60-inch cast iron pipe in the world

Swimming Pool.

The Swimming Pool was built on land reclaimed at the foot of Chestnut street, near the Pumping Station, in the early part of 1902. The interior of the pool covers a space 75 feet wide and 155 feet long, lined with Portland Cement. The depth of water ranges from 1 6-12 to 6 9-12 feet, and is supplied from a four-inch water pipe. On the west side of the Pool, there are thirty-four cabinets, each 3½x5 feet, also an attendant's room 15x5 feet.

FIRE HYDRANTS PLACED IN 1905.

STREET.	LOCATION.	SIZE. Inches.	STYLE.	REMARKS.
Second	180 ft. East of the East line of Cherry.....	4	Mathews.....	
Third	5 ft. West of the West line of East Avenue..	6	"	
Fourth	6.6 ft. East of the East line of Cascade.....	6	"	In place 4" Mathews taken out.
Fifth	6 ft. West of the West line of Plum.....	4	"	
North Park Ave..	184 ft. East of the East line of Liberty.....	6	"	
Sixth	5 ft. West of the West line of German.....	6	"	In place 4" Mathews taken out.
Seventh	390 ft. East of the East line of Payne Ave....	6	"	
Eighth	5 ft. West of the West line of Penna. Ave...	6	"	
Ninth	5 ft. West of the West line of Raspberry....	6	"	In place 4" Mathews taken out.
Eleventh	105 ft. West of the West line of Raspberry...	6	"	
Thirteenth	5 ft .West of the west line of Wayne.....	6	"	
Thirteenth	5 ft. West of the West line of Reed.....	6	"	
Fourteenth	5 ft. West of the West line of Wallace.....	6	"	In place 4" Mathews taken out.
Nineteenth	144 ft. West of the West line of Ash.....	6	"	
Twenty-third	305 ft. West of the West line of East Ave....	4	"	Taken out.
Twenty-third	108.6 ft. East of the East line of Warfel Ave.	4	"	
Twenty-fourth ...	91 ft. West of the West line of Penna. Ave..	6	"	In place 4" Ludlow taken out.
Twenty-fourth ...	90.6 ft. West of the West line of Penna. Ave.	6	"	Taken out.
Twenty-fifth	190.6 West of the West line of Plum.....	6	"	
Twenty-sixth	5 ft. East of the East line of Sassafras.....	6	"	In place 4" Mathews taken out.
Twenty-sixth	5.3 ft. East of the East line of Myrtle.....	6	"	In place 4" Mathews taken out.
Twenty-sixth	12.6 ft. West of the West line of Peach.....	6	"	(3 Way) In place 4" Mathews taken out.
Twenty-seventh ..	138 ft. East of the East line of Plum.....	6	"	
Twenty-eighth ...	190 ft. West of the West line of Cascade.....	6	"	
Twenty-eighth ...	400 ft. West of the West line of Raspberry..	6	"	
Twenty-ninth	227 ft. West of the West line of Plum.....	6	"	
Gaskell Avenue...	475 ft. North of the North line of Nineteenth	6	"	

FIRE HYDRANTS PLACED IN 1905.—Continued.

STREET.	LOCATION.	SIZE. Inches.	STYLE.	REMARKS.
Penna. Avenue...	5 ft. South of South line of Twenty-fourth..	6	Mathews.....	
Ross	5 ft. South of the South line of Third.....	6	"	
Newman	5 ft. South of the South line of Third.....	6	"	
Ash	7 ft. South of the South Line of Third.....	6	"	In place 4" Mathews taken out.
Wallace	119.6 ft. South of South line of Twenty-first..	6	"	
Hickory	8 ft. North of the North line of Eighteenth..	6	"	
Cochran	5 ft. South of the South line of Twenty-sixth.	6	"	
Chestnut	251 ft. South of the South line of Twelfth...	6	"	
Maple	5.9 ft. South of South line of Twenty-sixth..	6	"	
Liberty	521 ft. North of the North line of Sixteenth..	4	"	
Liberty	72 ft. South of the South line of Twelfth....	6	"	
Liberty	9 ft. North of the North line of Sixteenth....	6	"	
Liberty	273 ft. North of the North line of Sixteenth..	4	"	Taken out.
Cascade	5 ft. North of the North line of Twenty-ninth	6	"	

SUMMARY OF

FIRE HYDRANTS PLACED AND REMOVED IN 1905.

Placed.

STYLE—	SIZE.	NUMBER.	
Mathews	4-inch	4	
Mathews	6-inch	34	38

Removed.

STYLE—	SIZE.	NUMBER.	
Mathews	4-inch	11	
Mathews	6-inch	1	
Ludlow	4-inch	1	13
Net Increase			25
Number in use Dec. 31, 1904			725
Total in use Dec. 31, 1905			750

STOP VALVES PLACED IN 1905.

STREET.	WHERE LOCATED.	SIZE.	STYLE.	REMARKS.
Front	553 ft. North of the North line of Second.. 6.6 ft. East of the East line of Holland	4	Ludlow	Taken out.
Front	17 ft. South of the North line of Front 13.8 ft. East of the East line of Holland	4	Eddy	
Front	North line of Front 13.8 ft. East of the East line of Holland	4	"	
Front	8 ft. South of the North line of Front 18 ft. East of the East line of Holland	4	"	
Third	332.6 ft. West of the West line of Cherry 21 ft. South of the North line of Third	2	Hays	
Third	3 ft. East of the East line of French	4	Eddy	Taken out.
Third	West line of State	4	"	Taken out.
Third	West line of Peach	4	"	Taken out.
Third	East line of Peach	4	"	Taken out.
Third	East line of Wilson	6	"	
Third	West line of East Ave. (South side of street)	6	"	
Third	West line of Ash	6	"	In place of 4" Eddy taken out.
Fourth	East line of Cascade	20	"	
Fourth	East line of Cascade	4	"	Taken out.
Fourth	West line of Ash	6	"	In place of 4" Eddy taken out.
Fifth	10 ft. East of the East line of Ash	6	"	In place of 6" Eddy moved from East line of Ash.
Fifth	18 ft. West of the West line of Ash	6	"	In place of 6" Eddy moved from West line of Ash.
Park Ave., North.	East line of Liberty	6	"	
Sixth	East line of German	6	"	
Sixth	West line of German	6	"	
Seventh	East line of Payne	6	"	

STOP VALVES PLACED IN 1905—Continued.

STREET.	WHERE LOCATED.	SIZE.	STYLE.	REMARKS.
Eighth	East line of East Avenue	6	Eddy	
Eighth	West line of Pennsylvania Avenue	6	"	
Ninth	East line of Parade	6	"	In place of 4" Eddy taken out.
Ninth	West line of Parade	6	"	In place of 4" Eddy taken out.
Ninth	East line of State	6	"	In place of 4" Eddy taken out.
Ninth	West line of Raspberry	6	"	
Ninth	East line of Cranberry	6	"	
Eleventh	West line of Raspberry	6	"	
Thirteenth	West line of Reed	6	"	
Fourteenth	East line of Parade	6	"	In place of 4" Eddy taken out.
Fourteenth	West line of Parade	6	"	
Nineteenth	West line of Wayne	6	"	
Nineteenth	West line of Ash	6	"	
Twenty-fourth	East line of East Avenue	6	"	
Twenty-fifth	West line of German	6	"	
Twenty-fifth	East line of Holland	6	"	
Twenty-fifth	West line of Plum	6	"	
Twenty-sixth	1.9 ft. East of the East line of Chestnut; 16 ft. South of North line of Twenty-sixth.	6	Ludlow	Taken out.
Twenty-eighth	East line of Cascade	6	Eddy	
Twenty-eighth	West line of Cascade	6	"	
Twenty-ninth	West line of Plum	6	"	
Gaskell Avenue	South line of Nineteenth	6	"	
Gaskell Avenue	North line of Buffalo Road	6	"	
Penna. Avenue	North line of Twenty-fifth	6	"	
Wilson	South line of Third	6	"	
Newman	South line of Third	6	"	
Ross	South line of Third	6	"	

STOP VALVES PLACED IN 1905—Continued.

STREET.	WHERE LOCATED.	SIZE.	STYLE.	REMARKS.
Wallace	South line of Twenty-first	6	Eddy	
Ash	South line of Third	6	"	
Ash	North line of Fifth	6	"	
Ash	South line of Fifth	6	"	
Parade	South line of Fourteenth	6	"	
German	North line of Twenty-sixth	6	"	
German	North line of Eighth	4	"	
Liberty	South line of Twelfth	6	"	
Liberty	South line of Park Avenue	6	"	
Cascade	South line of Twenty-eighth	6	"	
Cranberry	South line of Ninth	12	"	

STATEMENT OF STOP VALVES.

	STYLE.	SIZES IN INCHES.														
		¾	1	1¼	1½	2	4	6	8	12	20	24	30	48	TOTAL.	
	Boston	....	....	....	....	....	....	....	....	....	1	....	1	....	2	
	Curtis	....	....	....	....	....	....	2	....	....	....	....	....	....	2	
	Eddy	....	....	....	....	....	353	793	14	121	14	1	6	2	1304	
	Jarecki & Hays	12	8	....	10	32	....	....	....	....	....	....	....	....	62	
	Ludlow	....	....	....	....	....	83	49	....	3	11	....	....	....	146	
	Pratt & Cady	....	....	....	....	....	....	3	4	3	....	....	....	....	10	
	Hays	2	1	....	13	2	....	....	....	....	....	....	....	....	18	
	Loetzer Air Valve	1	....	....	....	....	....	....	....	....	....	....	....	....	1	
	Rensselaer	....	....	....	....	....	....	....	....	....	....	....	1	....	1	
Stop Valves in use Dec. 31, 1904.	Total	15	9	....	23	34	436	847	18	127	26	1	8	2	.....	1545
Stop Valves placed in 1905	Eddy	....	....	....	....	....	4	43	....	1	1	....	....	....	49	
	Hays	....	....	....	....	1	....	....	....	....	....	....	....	....	1	
	Total	....	....	....	....	1	4	43	....	1	1	....	....	....	.....	50
	Total	15	9	....	23	35	440	890	18	128	27	1	8	2	.....	1596
Stop Valves removed in 1905	Eddy	....	....	....	....	....	12	....	....	....	....	....	....	....	12	
	Ludlow	....	....	....	....	....	1	1	....	....	....	....	....	....	2	
	Total	....	....	....	....	....	13	1	....	....	....	....	....	....	.....	14
Total Stop Valves in use Dec. 31, 1905	Total	15	9		23	35	427	889	18	128	27	1	8	2	.....	1582

Reservoir.

MAIN PIPE LAID IN 1905.

STREET.	LOCATION.	SIZES.							REMARKS.
		1 in.	2 in.	4 in.	6 in.	8 in.	12 in.	20 in.	
		Ft. In.	Ft. In.	Ft. In.	Ft. In.	Ft. In.	Ft. In.	Ft. In.	
East Front....	13.8 ft. East of the East line of Holl'd eastw'ly & northw'ly	.....	.....	18 2	.....	.....	.....	.....	
Second	180 ft. East of the East line of Cherry northwardly	.....	.....	3 3	.....	.....	.....	.....	Hydrant Branch.
Third	331 ft. West of the West line of Cherry westwardly.....	.....	1 6	.....	.....	.....	.....	.....	For Blow Off.
Third	39 ft. East of the West line of Ash westwardly	.....	.....	.....	39 10	.....	.....	.....	In place of 39.10 ft. of 4" pipe taken out.
Third	18 ft. West of the East line of Wilson westwardly	.....	.....	.....	269	.....	.....	.....	
Third	18 ft. West of the East line of Wilson eastwardly.....	.....	.....	.....	276	.....	.....	.....	
Third	18 ft. West of the East line of Ross eastwardly	.....	.....	.....	378 6	.....	.....	.....	
Third	5 ft. West of the West line of East Avenue southwardly ..	.....	.....	.....	9	.....	.....	.....	Hydrant Branch.
Fourth	198 ft. West of the West line of Plum westwardly	.....	.....	.....	.....	.....	.....	483 10	In place of 483.10 ft. of 4" pipe taken out.
Fourth	6.6 ft. East of the East line of Cascade northwardly	.....	.....	.....	6 6	.....	.....	.....	In place of 4" Hyd't Br'ch taken out.
Fourth	21 ft. West of the East line of Ash eastwardly	.....	.....	.....	22 8	.....	.....	.....	
Fourth	21 ft. West of the East line of Ash westwardly	.....	.....	.....	40	.....	.....	.....	In place of 40 ft. of 4" pipe taken out.
Fifth	6 ft. West of the West line of Plum northwardly	.....	.....	8	.....	.....	.....	.....	Hydrant Branch.

Fifth	1.8 ft. East of the East line of Ash westwardly							62 8	In place of 62.8 ft. of 6" pipe taken out.
Fifth	1.8 ft. East of the East line of Ash eastwardly				258 4				In place of 258.4 ft. of 6" pipe abandoned.
Park ave north	28 ft. West of the East line of Liberty eastwardly				212				
Park ave north	184 ft. East of the East line of Liberty northwardly				9				Hydrant Branch.
Sixth	28 ft. East of the East line of Holland eastwardly				1382				In place of 1382 ft. of 6" pipe abandoned.
Sixth	5 ft. West of the West line of German southwardly				4 6				Hydrant Branch.
Park ave south	191 ft West of the West line of Poplar westwardly				36				
Park ave south	227 ft. West of the West line of Poplar westwardly				127				
Seventh	21 ft. West of the East line of Payne Ave eastwardly				411				
Seventh	390 ft. East of the East line of Payne Ave northwardly				8 6				Hydrant Branch.
Seventh	251 ft. East of the East line of Hess Ave eastwardly				40				
Seventh	291 ft. East of the East line of Hess Ave northwardly			9					In place of 4" H. B. moved from 251 ft.E. of Hess ave.
Eighth	27 ft. West of the East line of East Ave eastwardly				200				
Eighth	173 ft. East of the East line of East Ave eastwardly				424				
Eighth	5 ft. West of the West line of Penn'a Ave northwardly				7				Hydrant Branch.
Ninth	5 ft. West of the West line of Raspberry northwardly				8				Hydrant Branch.
Ninth	28 ft. East of the West line of State eastwardly					70 4			In place of 72.4 ft. of 4" pipe taken out.

MAIN PIPE LAID IN 1905—Continued.

STREET.	LOCATION.	SIZES.							REMARKS.
		1 in.	2 in.	4 in.	6 in.	8 in.	12 in.	20 in.	
		Ft. In.	Ft. In.	Ft. In.	Ft. In.	Ft. In.	Ft. In.	Ft. In.	
Ninth	3 ft. West of the West line of Parade eastwardly	.....	.....	.....	106	.....	.....	.....	In place of 106 ft. of 4" pipe taken out.
Eleventh	21 ft. West of the East line of Raspberry westwardly	.....	.....	.....	144	.....	.....	.....	
Eleventh	105 ft. West of the West line of Raspberry northwardly..	.....	.....	.....	8	.....	.....	.....	Hydrant Branch.
Thirteenth	5 ft. West of the West line of Reed northwardly	.....	.....	.....	6	.....	.....	.....	Hydrant Branch.
Thirteenth	5 ft. West of the West line of Wayne northwardly	.....	.....	.....	6	.....	.....	.....	Hydrant Branch.
Fourteenth	From West line of Parade eastwardly	.....	.....	.....	61 6	.....	.....	.....	In place of 61.6 ft. of 4" pipe taken out.
Fourteenth	40 ft. West of the East line of Parade eastwardly	.....	.....	.....	672	.....	.....	.....	In place of 672 ft. of 4" pipe taken out.
Fourteenth	5 ft. West of the West line of Wallace northwardly	.....	.....	.....	8	.....	.....	.....	In place of 4" H. B. taken out.
Seventeenth ...	6 ft. West of the West line of Wallace eastwardly	.....	.....	.....	12	.....	.....	.....	
Nineteenth	39 ft. East of the West line of Ash westwardly	.....	.....	.....	183	.....	.....	.....	
Nineteenth	144 ft. West of the West line of Ash northwardly	.....	.....	.....	8	.....	.....	.....	Hydrant Branch.
Nineteenth	55 ft. East of the East line of Reed eastwardly	.....	.....	.....	600	.....	.....	.....	
Twenty-third .	'08.6 ft. East of the East line of Warfel Ave northwardly	.....	.....	9 8	.....	.....	.....	.....	Hydrant Branch.

Twenty-fourth.	90.6 ft. West of the West line of Penn'a Ave westwardly	.....	.....	.....	95	.....	.....	.....	
Twenty-fourth.	186.6 ft. West of the West line of Penn'a Ave westwardly..	.....	.....	.....	474 6	.....	.....	.....	
Twenty-fifth ..	21 ft. West of the East line of Plum westwardly	.....	.....	.....	225 6	.....	.....	.....	
Twenty-fifth...	190.6 ft. West of the West line of Plum northwardly	.....	.....	.....	9	.....	.....	.....	Hydrant Branch.
Twenty-fifth ..	1 ft East of the East line of Holland eastwardly	.....	.....	.....	260	.....	.....	.....	
Twenty-fifth...	261 ft. East of the East line of Holland eastwardly	.....	.....	.....	67	.....	.....	.....	
Twenty-fifth ..	21 ft. West of the East line of German westwardly	.....	.....	.....	144	.....	.....	.....	
Twenty-fifth ..	329 ft. East of the East line of Holland eastwardly	.....	.....	.....	227	.....	.....	.....	
Twenty-sixth .	5.3 ft. East of the East line of Myrtle northwardly	.....	.....	.....	8	.....	.....	.....	In place of 4" H. B. taken out.
Twenty-sixth .	5 ft. East of the East line of Sassafras northwardly	.....	.....	.....	8 6	.....	.....	.....	In place of 4" H. B. taken out.
Twenty-sixth .	12.6 ft West of the West line of Peach northwardly	.....	.....	.....	6 6	.....	.....	.....	In place of 4" H. B. taken out.
Twenty-sev'th.	228.4 ft West of the West line of Raspberry westwardly ..	.....	.....	.....	108 6	.....	.....	.....	
Twenty-sev'th.	336.6 ft. West of the West line of Raspberry northwardly..	.....	.....	.....	8	.....	.....	.....	Hydrant Branch.
Twenty-sev'th.	138 ft. East of the East line of Plum northwardly	.....	.....	.....	8 9	.....	.....	.....	Hydrant Branch.
Twenty-eighth.	485 ft. West of the west line of Plum westwardly	.....	.....	.....	425	.....	.....	.....	
Twenty-eighth.	21 ft. West of the East line of Raspberry westwardly	.....	.....	.....	439	.....	.....	.....	
Twenty-eighth.	400 ft. West of the West line of Raspberry northwardly..	.....	.....	.....	9	.....	.....	.....	Hydrant Branch.
Twenty-eighth.	5 ft. East of the East line of Cascade northwardly	.....	.....	.....	9	.....	.....	.....	Hydrant Branch.

MAIN PIPE LAID IN 1905—Continued.

STREET.	LOCATION.	SIZES.							REMARKS.
		1 in.	2 in.	4 in.	6 in.	8 in.	12 in.	20 in.	
		Ft. In.	Ft. In.	Ft. In.	Ft. In.	Ft. In.	Ft. In.	Ft. In.	
Twenty-eighth.	190 ft. West of the West line of Cascade northwardly ...	.....	.....	.....	9	.....	.....	.....	Hydrant Branch.
Twenty-ninth..	21 ft. West of the East line of Plum westwardly	.....	.....	.....	226	.....	.....	.....	
Twenty-ninth .	187 ft. West of the West line of Plum westwardly	.....	.....	.....	40	.....	.....	.....	
Twenty-ninth .	227 ft. West of the West line of Plum northwardly	.....	.....	.....	9	.....	.....	.....	Hydrant Branch.
Gaskell Avenue	18 ft. South of the north line of Buffalo Road northwdly.	.....	.....	.....	1020	.....	.....	.....	Morse Iron Works.
Gaskell Avenue	475 ft. north of the north line of Nineteenth westwardly..	.....	.....	.....	7	.....	.....	.....	Hydrant Branch.
Penn'a Avenue.	21 ft. South of the north line of Twenty-fourth southwdly	.....	.....	.....	158	.....	.....	.....	
Penn'a Avenue.	119 ft. South of the South line of Twenty-fourth southwdly	.....	.....	.....	172	.....	.....	.....	
Penn'a Avenue.	18 ft. South of the north line of Eighth northwardly	.....	.....	.....	13 8	.....	.....	.....	
Penn'a Avenue.	18 ft. South of the North line of Eighth southwardly	.....	.....	.....	101	.....	.....	.....	
Penn'a Avenue.	5 ft. South of the South line of Twenty-fourth eastwardly..	.....	.....	.....	9	.....	.....	.....	Hydrant Branch.
Ross	10.3 ft. South of the South line of Third northwardly	.....	.....	.....	28 3	.....	.....	.....	
Ross	5 ft. South of the South line of Third eastwardly	.....	.....	.....	9	.....	.....	.....	Hydrant Branch.

Newman	86 ft. South of the South line of Third northwardly	.....	.....	.....	118	.....	.....	.....	
Newman	5 ft. South of the South line of Third eastwardly	.....	.....	.....	9	.....	.....	.....	Hydrant Branch.
Wilson	1 ft. South of the South line of Third northwardly	.....	.....	.....	33	.....	.....	.....	
Wilson	11 ft. South of the South line of Third eastwardly	.....	.....	.....	9	.....	.....	.....	In place of 4" H. B. taken out.
Ash.....	130 ft. North of the North line of Fifth southwardly	.....	.....	.....	514 6	.....	.....	.....	In place of 514.6 ft. of 6" pipe taken out.
Ash.....	7 ft. South of the South line of Third eastwardly	.....	.....	.....	8	.....	.....	.....	In place of 4" H. B. taken out.
Wallace	130 ft. South of the South line of Second southwardly	.....	.....	.....	200	.....	.....	.....	
Wallace	147.6 ft. North of the North line of Fourth northwardly	.....	.....	.....	242 6	.....	.....	.....	
Wallace	119.6 South of the South ne of Twenty-first eastwardly	.....	.....	.....	9	.....	.....	.....	Hydrant Branch.
Wallace	21 ft. South o the North line of Twenty-first southwardly	.....	.....	.....	158 6	.....	.....	.....	
Parade.....	21 ft. South of the North line of Ninth southwardly	.....	.....	.....	364	.....	.....	.....	In place of 364 ft. of 4" pipe abandoned.
Parade.....	20 ft. South of the North line of Fourteenth southwardly.	.....	.....	.....	108	.....	.....	.....	In place of 108 ft. of 4" pipe taken out.
German	132.6 ft. South of the South line of Fifth southwardly..	.....	.....	.....	228 6	.....	.....	.....	
Chestnut	82.8 ft. South of the South line of Twelfth eastwardly	.....	.....	.....	2	.....	.....	.....	Hydrant Branch.
Hickory	8 ft. North of he North line of Eighteenth eastwardly	.....	.....	.....	7 8	.....	.....	.....	Hydrant Branch.
Cochran	5 ft. South of the South line of Twenty-sixth eastwdly..	.....	.....	.....	6 5	.....	.....	.....	Hydrant Branch.
Maple	5.9 ft. South of the South line of Twenty-sixth eastwardly	.....	.....	.....	8	.....	.....	.....	Hydrant Branch.
Liberty	21 ft. South of the North line of Seventh northwardly ...	.....	.....	.....	106	.....	.....	.....	

MAIN PIPE LAID IN 1905—Continued.

STREET.	LOCATION.	SIZES.							REMARKS.
		1 in.	2 in.	4 in.	6 in.	8 in.	12 in.	20 in.	
		Ft. In.	Ft. In.	Ft. In.	Ft. In.	Ft. In.	Ft. In.	Ft. In.	
Liberty.....	85 ft. North of the North line of Seventh northwardly	.....	.....	.....	101	.....	.....	.....	
Liberty.....	112 ft. North of the North line of Eleventh southwardly ..	7 5	.....	.....	.....	.....	.....	.....	
Liberty.....	27 ft. South of the North line of Twelfth southwardly ...	.....	.....	.....	141	.....	.....	.....	
Liberty.....	521 ft. North of the North line of Sixteenth eastwardly....	.....	.....	10 4	.....	.....	.....	.....	Hydrant Branch.
Liberty.....	72 ft. South of the South line of Twelfth eastwardly	.....	.....	.....	11	.....	.....	.....	Hydrant Branch.
Liberty.....	9 ft. North of the North line of Sixteenth eastwardly ...	.....	.....	.....	6 2	.....	.....	.....	Hydrant Branch.
Cascade	21 ft. South of the North line of Twenty-eighth southwdly	.....	.....	.....	304	.....	.....	.....	
Cascade	5 ft. North of the North line of Twenty-ninth eastwrdly	.....	.....	.....	8	.....	.....	.....	Hydrant Branch.
Cranberry	39 ft. North of the South line of Ninth southwardly.....	.....	.....	.....	.....	.....	393	.....	
	Total	7 5	1 6	58 7	[illegible]	70 7	393	545 8	

SUMMARY OF PIPE LAID AND REMOVED IN 1905.

PIPE LAID.	Feet.	In.		Feet.	In.
1-inch	7	5			
2-inch	1	6			
4-inch	58	7			
6-inch	13023	9			
8-inch	70	7			
12-inch	293				
20-inch	545	8	Total,	14110	6

PIPE REMOVED.							Feet.	In.
2-inch	65	9						
4-inch	2048							
6-inch	2236	6	Total,	4350	3	Net increase	9760	3
						Or 1 Mile	4480	3
			Reported December 31, 1904,			117 Miles	4542	8
			Total to December 31, 1905...			119 Miles	3752	11

CONNECTIONS MADE IN 1905.

WARD	¾-Inch.			1-Inch.			1½-Inch.			2-Inch.			3-Inch.			4-Inch.			6-Inch.			TOTAL.		
	No.	Feet	In.	No.	Ft.	In	No.	Ft.	In	No.	Ft.	In	No.	Ft.	In	No.	Ft.	In	No	Ft.	In	No.	Ft.	In.
First	86	1585		....	....		....	....		....	....		....	....		....	....		....	....		86	1585	
Second	70	1016	5	....	....		2	18	10	1	12		....	....		1	12	6	3	53	3	77	1113	
Third	94	1696	2	2	38	4	1	6	4	2	27	11	....	....		2	89	10	1	64	4	102	1922	11
Fourth	53	1318	6	2	16	6	1	8		....	....		....	....		....	....		....	....		56	1343	
Fifth	82	1404	6	....	....		....	....		....	....		....	....		....	....		....	....		82	1404	6
Sixth	101	2295	2	....	....		1	58	6	1	7	6	....	....		....	....		....	....		103	2361	2
Seventh	17	227	6	....	....		....	....		2	8	3	....	....		....	....		1	5		20	240	9
Total	503	9543	3	4	54	10	5	91	8	6	55	8	....	....		3	102	4	5	122	7	526	9970	4

CONNECTIONS TAKEN OUT IN 1905.

First	1	11	4	....	....		....	....		....	....		....	....		....	....		....	....		1	11	4
Second	19	307	5	....	....		1	50		....	....		....	....		....	....		....	....		20	357	5
Third	4	43	3	....	....		....	....		....	....		....	....		....	....		....	....		4	43	3
Fourth	1	46		....	....		2	27		....	....		....	....		....	....		....	....		3	73	
Fifth	1	24	6	....	....		....	....		....	....		....	....		....	....		....	....		1	24	6
Sixth	3	51		....	....		....	....		....	....		....	....		....	....		....	....		3	51	
Seventh	....	....	....	....	....		....	....		....	....		....	....		....	....		....	....		....	....	
Total	29	483	6	....	....		3	77		....	....		....	....		....	....		....	....		32	560	6
Net Increase	474	9059	9	4	54	10	2	14	8	6	55	8	....	....		3	102	4	5	122	7	494	9409	10

CONNECTIONS RENEWED AND ALTERED IN 1905.

		Gain in Service Pipe Ft.	In.	Loss in Service Pipe Ft.	In.
First	118	229	3	.....	
Second	277	60	9	.....	
Third	13	.....		3	1
Fourth	15	.....		13	9
Fifth	....	.....		.....	
Sixth	39	.....		52	5
Total	462	290		69	3

	Ft.	In.	Ft.	In.
Increase in service pipe in 1905	9409	10		
Gain of service pipe altering 462 connections	220	9		
Net increase of service pipe in 1905			9630	7
Service pipe in use December 31, 1904	50 Miles		662	8
Service pipe in use December 31, 1905	51 Miles		5013	3

STATEMENT OF CONNECTIONS MADE TO DECEMBER 31, 1905.

WARD.	IN PAVED STREETS NOT IN USE. Size in Inches.							IN USE. Size in Inches										TOTAL. Size in Inches.									
	¾	1	1½	2	4	6	Total	¾	1	1¼	1½	2	2½	3	4	6	Total.	¾	1	1¼	1½	2	2½	3	4	6	Total.
First	256	1	...	2	..	...	259	1619	22	.	14	14	...	...	17	1	1687	1875	23	.	14	16	..	...	17	1	1946
Second	282	1	1	...	1	...	285	2338	21	...	30	22	...	...	44	23	2478	2620	22	...	31	22	...	...	45	23	2763
Third	479	2	.	1	...	...	482	2252	42	...	28	41	1	...	32	7	2403	2731	44	...	28	42	1	...	32	7	2885
Fourth	288	2	...	...	...	...	290	1849	35	3	27	25	...	...	15	3	1957	2137	37	3	27	25	...	...	15	3	2247
Fifth	127	...	...	...		...	127	1706	15	1	13	14	...	...	6	...	1755	1833	15	1	13	14	..	...	6	...	1882
Sixth	129	3	...	.	2	..	134	1653	19	...	12	13	...	1	8	3	1719	1792	22	...	12	13	..	1	10	3	1853
Seventh	..	.	...	...	...	...	..	159	6	1	10	11	...	1	5	9	202	159	6	1	10	11	. .	1	5	9	202
Total	1561	9	1	3	3	...	1577	11586	160	5	134	140	1	2	127	46	12201	13147	169	5	135	143	1	2	130	46	13778

Total number reported December 31, 1904			13,281
Made on account street paving in 1905	192		
Made on application in 1905	334	526	
Removed and abandoned in 1905		32	
Net increase in 1905			494
Total number December 31, 1905			13,778

STATEMENT OF METERS DECEMBER 31, 1905.

KIND.	IN USE.									NOT IN USE.									TOTAL.								
	SIZE IN INCHES.								Total	SIZE IN INCHES.								Total	SIZE IN INCHES.								Total
	⅝	¾	1	1½	2	3	4	6		⅝	¾	1	1½	2	3	4	6		⅝	¾	1	1½	2	3	4	6	
Crown	...	5	2	2	8	1	2	...	20	1	...	...	...	...	...	...	...	1	1	5	2	2	8	1	2	...	21
Columbia	2	16	...	...	...	...	...	...	18	...	...	...	...	...	...	...	...	...	2	16	...	...	...	...	...	...	18
Empire	...	...	2	...	3	...	...	...	5	...	...	...	...	...	...	...	...	...	...	...	2	...	3	...	...	...	5
Gem	...	...	...	...	...	...	...	...	...	...	...	...	...	3	...	...	...	3	...	...	...	...	3	...	...	...	3
Keystone	...	1	3	12	8	...	...	...	24	...	...	...	...	...	...	...	...	...	...	1	3	12	8	...	...	...	24
Lambert	...	1	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	1
Nash	...	...	...	...	1	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	1
Pitts. Disc	...	1	1	...	...	...	...	...	2	...	...	...	...	...	...	...	...	...	...	1	1	...	...	...	...	...	2
Thomson	3	5	4	4	5	1	4	...	26	...	1	...	...	...	...	...	...	1	3	6	4	4	5	1	4	...	27
Torrent	...	...	...	...	...	...	...	4	4	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	4	4
Union	2	61	14	11	26	11	16	1	142	...	20	6	5	2	2	2	...	37	2	81	20	17	29	13	18	1	179
Worthington	...	2	6	4	...	1	...	...	13	...	1	4	2	...	...	...	...	7	...	3	10	6	...	1	...	...	20
Worthington Disc	...	...	1	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	1
Total	7	92	33	33	51	14	22	5	257	1	22	10	7	5	2	2	...	49	8	114	43	41	56	16	24	5	306

CROSSES PLACED IN 1905.

SIZE.	NUMBER.	
6 x 4-inch	1	
6 x 6-inch	10	
8 x 6-inch	1	
12 x 6-inch	2	
20 x 6-inch	2	16

REMOVED IN 1905.

SIZE.	NUMBER.	
4 x 4-inch	1	
6 x 4-inch	1	
6 x 6-inch	2	4
Net Increase		12

TEES PLACED IN 1905.

SIZE.	NUMBER.	
4 x 4-inch	2	
6 x 4-inch	2	
6 x 6-inch	32	
20 x 6-inch	1	37

REMOVED IN 1905.

SIZE.	NUMBER.	
2 x 2-inch	1	
4 x 4-inch	3	
6 x 4-inch	5	
6 x 6-inch	1	10
Net Increase		27

1905 **Analyses of Water By Dr. Wm. P. Mason, Troy, N. Y.** 1905

RESULTS IN PARTS PER MILLION.

LOCATION.	DATE. 1905.	Taste.	Odor.	Color.	Sediment Quickly Falling.	Turbidity.	Free Ammonia.	Albuminoid Ammonia.	Chlorine.	Nitrogen in Nitrates.	Nitrogen in Nitrites.	Oxygen Required to Oxidize Organic Matter at 212° F.	Alkalinity as Parts of Ca. Co.[1]	Total Solids.	Bacteria (per Cubic Centimeter.)	Bacillus Coli Communis.	REMARKS.
Lake Erie.....	Feb.21	none	none	3	none	10.	.099	.103	5.	.062	Trace	1.6	102.	140.	84.	none	
Present Intake		none	none	10.	none	3.	.169	.171	5.	.0875	.003	3.1	115.	150.	229.	abundant	
Worthington Pump Well..		none	none	10.	none	3.	.189	.201	5.	.0875	.003	3.1	115.	140	227.	abundant	
Reservoir.		none	none	5.	none	2.	.16	.155	5.	.0875	.003	3.15	115.	180.	95.	*present	*The water shows the improvement due to storage.
Lake Erie.....	June 1	none	none	none	none	2.	03	.102	5.	.025	.001	1.75	95.	146.		none	
Present Intake.		none	none	10.	none	1.	.124	.193	5.5	.037	0055	3.6	95.	119.		present	
Worthington Pump Well..		none	none	10.	none	1.	.1	.28	5.5	.037	.024	4.05	95.	147.		present	
Reservoir.....		none	none	none	none	1.	205	.07	5.5	.062	.0045	2.85	95.	102.		few pres't	
Lake Erie.....	Oct. 24	none	fishy	none	none	50.	.021	.159	5 5	.062	trace	.7	100.	135.	23.	none	
Present Intake		none	none	none	none	4.	.1	.213	5 5	.05	.0035	4.	90.	143.	720.	present	
Worthington Pump Well..		none	none	none	none	5.	.093	.172	5.5	.062	.004	1 1	95.	133.	735.	present	
Reservoir.....		none	none	none	none	none	.165	.185	5.5	.062	none	.9	100.	96.	230.	none	

DRINKING FOUNTAINS FOR MAN, HORSE AND DOG.

Manufactured by J. L. Mott Iron Works, New York and Chicago.

STYLE.	DATE OF INSTALLATION.	WHERE LOCATED.
No. 1	October 26, 1894	South Park Row between State and French streets.
No. 2	June 13, 1894	Turnpike, Southwest corner State street.
No. 2	June 16, 1894	Parade and Southeast corner Tenth Street.
No. 2	July 3, 1895	State and Southeast corner Eighteenth street.
No. 2	July 26, 1895	Parade, East Side, between Twelfth and Thirteenth streets.
No. 2	October 2, 1895	State, East Side, between Third and Fourth streets.
No. 2	June 16, 1896	Chestnut and Southeast corner Eighteenth street.
No. 2	July 31, 1897	Peach and Southeast corner Twenty-sixth street.
No. 2	August 5, 1897	Eighth street, Northwest corner Cranberry street.
No. 2	August 14, 1900	Peach and Lakeside Park.
No. 3	August 22, 1900	Water Works Park.
No. 2	July 24, 1901	Buffalo Road, end of main.
No. 4	December 12, 1902	Center of Eliot Avevnue, west line of Waterford Avenue.
No. 4	September 13, 1904	West Side, Pine Avenue, South of City line.
No. 4	September 22, 1904	Cor. Waterford Turnpike and Cherry street.
No. 4	September 26, 1904	North Side 26th, West of Cranberry.
No. 4	July 8th, 1905	East Lake Road, end of Main.
No. 4	August 18th, 1905	Cor. Elm and 26th streets.

STYLE NO. 1.—Square base; ornamental top, with square sides; three places for man, one for horses.

STYLE NO. 2.—Square base; oval sides, with plain top; one place for man, one for horses, two for dogs.

STYLE NO. 3.—Flat base; oval sides, with plain top; one place for man.

STYLE NO. 4.—Cast iron water pipe, 20-in. diameter, 7 ft. long and stands 4½ ft. above ground, which runs all winter without freezing. Designed by Clark Olds.

HYDRANTS FOR CART SPRINKLERS.

Date of Installation. Month	Day	Year	STYLE.	SIZE.	Side of Street.	WHERE LOCATED.
April	26	1876	Jarecki & Hays	1½-inch	North	Ninth Street, between State and French.
June	6	1882	" "	1½ "	East	State Street, between Tenth and Eleventh.
July	31	1882	" "	1½ "	North	Eighteenth, Northwest corner Peach.
July	31	1882	" "	1½ "	East	State Street, Southwest corner East Park.
April	20	1885	" "	1½ "	South	Fifteenth Street, between Peach and Sassafras.
June	7	1886	" "	1½ "	South	Twelfth Street, Southwest corner Peach.
June	3	1887	" "	1½ "	East	Myrtle Street, Southeast corner Eighteenth.
June	3	1887	" "	1½ "	East	Walnut Street, Northeast corner Eighteenth.
August	23	1889	Hays	1½ "	East	Parade Street, Southeast corner Eighth.
August	23	1889	"	1½ "	East	Parade Street, Northeast corner Twelfth.
June	8	1891	"	1½ "	North	Fourteenth Street, Southeast corner State.
July	8	1893	"	1½ "	North	Eighth Street, between Raspberry and Cranberry.
January	10	1895	Jarecki	1½ "	East	Parade Street, between Sixteenth and Seventeenth.
April	14	1897	"	1½ "	East	Walnut Street, Northeast corner Tenth.
July	29	1901	"	1½ "	North	Seventh Street, Northwest corner Cherry.
May	13	1904	Mertens	1½ "	East	Reed Street, Southeast corner Sixth.
June	10	1904	"	1½ "	East	Reed Street, Southeast corner Tenth.
June	17	1904	"	1½ "	East	Reed Street, Southeast corner Eighteenth.
June	15	1904	"	1½ "	North	Twelfth Street, Northwest corner Chestnut.
June	16	1904	"	1½ "	North	Sixth Street, Northwest corner Holland.
June	18	1904	"	1½ "	North	Twelfth Street, Northwest corner Holland.
June	21	1904	"	1½ "	North	Twenty-second Street, Northeast corner Holland.
June	21	1904	"	1½ "	North	Twenty-sixth Street, Northwest corner Peach.
July	28	1904	"	1½ "	East	Peach Street, between Twenty-first and Twenty-second.
August	1	1904	"	1½ "	North	Third Street, between Myrtle and Chestnut.
August	2	1904	"	1½ "	North	Third Street, between Sassafras and Myrtle.
August	2	1904	"	1½ "	North	West Lake Road 1979 ft. west of the East line of Cranberry
September	13	1904	"	1½ "	North	Third Street, 16.4 ft. West of the West line of Holland.

CHARITABLE INSTITUTIONS.

Churches, Parsonages, Parish-Houses and Schools Assessed Under the One-third rate in 1905.

FIRST WARD.

NAME.	Full Rate.	One-Third Rate.
Hamot Hospital (Nurses' Home)	$ 34 95	$ 11 65
Hamot Hospital	185 70	61 90
Erie Bethel	7 00	2 34—
Swedish Baptist Church	3 00	1 00
Florence Crittenton Home	22 50	7 50
Boys' Club	51 45	17 14+
St. James A. M. E. Church	12 00	4 00—
East Sixth Street Baptist Church	5 00	1 68—
Wm. Brewster's Industrial School for Girls	17 55	5 86—
St. Patrick's Church (Rectory)	29 55	9 84+
St. Patrick's Church	13 30	4 43+
St. Patrick's Auditorium	99 54	33 18
St. Joseph's Orphan Asylum	145 25	48 82—
	$ 626 79	$ 208.94

SECOND WARD.

Davis Short Hand and Business School	$ 24 50	$ 8 16+
Erie Business University	10 00	3 34—
St. Stanislaus' School	166 75	55 58+
St. Stanislaus' Church	40 15	13 38+
St. Stanislaus' Society Hall	9 00	3 00
St. Stanislaus' Convent	16 00	5 34—
St. Stanislaus' Rectory	16 00	5 32+
St. Ann's Church Rectory	25 05	8 35
St. Ann's Church	17 50	5 84—
United Presbyterian Church	68 05	22 69—
United Presbyterian Church Parsonage	14 85	4 96+
St. Mary's Church	16 50	5 50
St. Mary's Rectory and Church	30 75	10 24+
St. Benedict's Convent	56 95	18 98+
St. Benedict's Academy	64 70	21 57—
St. Benedict's Hospital	14 00	4 68—
St. Mark's Episcopal Church	14 00	4 67—
Swedish Lutheran Church	19 00	6 35—
Swedish Lutheran Church Parsonage	14 00	4 67—
St. Mary's School—New	103 75	34 59—
St. Mary's School—Old	37 95	12 65+
Tenth Street M. E. Church	16 55	5 51+
Lutheran Memorial Church	9 00	3 00
St. Ann's Church Parochial School	44 60	14 87—
Birth Sholem Congregation	11 00	3 68—
	$ 860 60	$ 288 92

CHARITABLE INSTITUTIONS—Continued.

THIRD WARD.

Name.	Full Rate.	One-Third Rate.
Tabernacle	$8 00	$2 68—
St. Paul's German Lutheran Church Parsonage	16 50	5 52—
St. Paul's Lutheran Church	35 25	11 77—
Lutheran Memorial Church	34 05	11 35
Salem Church Parsonage	14 50	4 83+
Salem Church	47 95	15 98+
St. Peter's Cathedral Episcopal Residence	23 60	7 88—
St. Peter's Cathedral	43 32	14 44
Chestnut Street Presbyterian Church	35 50	11 83+
St. Paul's Italian Church	14 00	4 66+
Bishop Spalding Memorial Chapel	23 05	7 69—
Villa Maria Academy	305 34	101 78
St. Luke's Evangelical Lutheran Church	17 50	5 83+
Erie Academy	19 60	6 54—
First Unitarian Church	14 00	4 67—
Y. M. C. A.	291 36	97 12
Central Prfesbyterian Church	80 65	26 89—
Calvary Baptist Church	17 00	5 68—
St. Peter's Church Parochial School	50 25	16 74+
German Evangelical Lutheran Church	23 00	7 67
German Evangelical Lutheran Parsonage	18 50	6 18—
Erie Society Free Methodist Church of North America	9 00	3 00
St. Michael's Parochial School	43 85	14 62—
St Michael's Church Rectory	25 45	8 48+
St. Michael's Church Convent	9 75	3 25
First Baptist Church	8 00	2 68—
Sandford Memorial Mission	28 90	9 62+
	$1,257 87	$ 419 38

FOURTH WARD.

First Presbyterian Church	$47 20	$15 74—
First Baptist Church	20 00	6 66+
St. Paul's Episcopal Church and Parish House	81 24	27 08+
St. John's Lutheran Memorial Mission	5 00	1 67—
St. Andrew's Church Rectory	11 00	3 68—
Young Woman's Christian Association	68 05	22 70—
First Methodist Episcopal Church	32 50	10 84—
First Christian Church	8 00	2 68—
First Christian Church Parsonage	11 00	3 68—
St. Paul's Episcopal Church Rectory	14 85	4 96—
St. Matthew's Evangelical Church	10 00	3 34—
Park Presbyterian Church	35 00	11 68—
Park Presbyterian Church Parsonage	19 20	6 40
Hebrew Synagogue	17 95	6 00—
	$380 99	$127 11

CHARITABLE INSTITUTIONS—Continued.

FIFTH WARD.

NAME.	Full Rate.	One-Third Rate.
St. John's Church Parochial School	61 20	$20 40
St. Mary's Home (Old Folks' Home)	37 75	12 58+
Second Baptist Church	10 00	3 34—
Second Baptist Church Parsonage	7 00	2 32+
Wayne Street M. E. Church Parsonage	15 50	5 17—
Wayne Street M. E. Church	5 00	1 68—
St. Stephen's Lutheran Church Parsonage	19 45	6 49—
Holy Trinity Church and School	48 70	16 24—
Evangelical Luth. Church of the Redeemer	7 70	2 58—
St. John's Catholic Church	23 50	7 84—
Rev. M. J. Decker (Rectory)	17 90	5 99—
	$253 70	$84 63

SIXTH WARD.

St. John's Lutheran Church Parsonage	16 35	5 44+
St. John's Lutheran Church	61 05	20 35
First German Baptist Church Parsonage	45 40	15 16—
St. Joseph's Church Rectory	10 80	3 60
St. Joseph's R. C. Church	5 00	1 68—
St. Joseph's Church Parochial School	106 00	35 34—
Home for the Friendless	92 35	30 79—
Old Ladies' Home	88 25	29 42—
Glenwood Chapel	10 05	3 35
Zion Lutheran Church	13 50	4 50
Sacred Heart Parochial School	16 50	5 51—
Sacred Heart Rectory	19 95	6 65
Sacred Heart Church	16 20	5 40
Simpson M. E. Church Rectory	11 00	3 68—
Simpson M. E. Church	41 25	13 75
Brown Avenue U. P. Church	18 70	6 24—
St. Vincent's Hospital Association	300 24	100 08
	$872 59	$290 94

SEVENTH WARD.

First Presbyterian Congregation Parsonage	$13 75	4 59—
First Presbyterian Congregation	15 00	5 01—
	$28 75	$9 60
Total	$4,281 29	$1,427 52

476165

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